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**Upper Dalhousie Quarry,
Bonnyrigg, Midlothian**

Archaeological Works

Report No. 3471

 0131 273 4380

 0131 273 4381

 info@cfa-archaeology.co.uk

 www.cfa-archaeology.co.uk

CFA ARCHAEOLOGY LTD

The Old Engine House
Eskmills Business Park
Musselburgh
East Lothian
EH21 7PQ

Tel: 0131 273 4380
Fax: 0131 273 4381
email: info@cfa-archaeology.co.uk
web: www.cfa-archaeology.co.uk

Author	Katie Sludden BFA MA Hons and Ewan MacNeilage MA Hons
Illustrator	Shelly Werner BA MPhil PhD MCIfA
Approver	Bruce Glendinning BSc PG Dip MCIfA
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1. INTRODUCTION

1.1 General

This report presents interim results of an ongoing programme of archaeological works at Upper Dalhousie Quarry, Midlothian (NGR: NT 3025 6277 centred) (Fig. 1a). The current phase was undertaken by CFA Archaeology Ltd (CFA) in May to June 2016. The work was commissioned by Tillicoultry Quarries.

A Written Scheme of Investigation (WSI) dated 19 August 2008 was produced by CFA on behalf of Independent Aggregates Ltd. The WSI was for an intensive archaeological Watching Brief on all topsoil stripping operations associated with the operation of the quarry.

1.2 Background

The quarry site lies in undulating farmland between Gorebridge and Rosewell in Midlothian (Fig. 1) and is bisected into two areas (Area A and Area B) by an area of woodland known as Galladean Plantation. An archaeological evaluation undertaken by CFA in May 2008 (Suddaby 2008) prior to the commencement of quarrying operations identified rig-and-furrow cultivation traces and isolated features dating from the Early Neolithic and Late Bronze Age.

The area to the south-east of Galladean plantation (Area A) has been the subject of a number of previous phases of work (Mitchell 2009, Gray 2010, Suddaby 2014). This work was done in a number of stages with areas being stripped of topsoil and the quarrying taking place before moving on to the next area. Each area of topsoiling was subject to an intensive watching brief and, if required, further mitigation works.

The work undertaken within Area A identified a number of archaeological features of prehistoric date including spreads of pits and the vestigial remains of a double ditched enclosure (Mitchell 2009, Gray 2010, Suddaby 2014).

This report presents the results of watching brief and excavation undertaken within Area B and continues from work commenced in 2015 (Kirby 2015). The quarrying within Area B will be conducted in a similar manner to that in Area A, with individual areas being stripped and then quarried prior to moving on to the next area. Future phases of work will be reported on under separate cover.

1.3 Objectives

The objectives of the Phase 1 Intensive Watching Brief were:

- To identify the presence/absence, character and quality of any archaeologically sensitive deposits within the area under observation and to propose mitigation measures where necessary

Following the identification of archaeological features during the watching brief, the objectives of Phase 2 of the project were:

- To excavate and record the features revealed within the stripped area.
- To produce an interim report on the excavation

2. WORKING METHODS

2.1 General

CFA Archaeology Ltd follows the Chartered Institute for Archaeologists' Code of Conduct, Standards and Guidance as appropriate. All work complies with the requirements of the Midlothian Council Archaeological Advisor.

2.2 Watching Brief and Excavation

The removal of topsoil was carried out using a 360° tracked excavator equipped with a smooth-bladed ditching bucket, under archaeological supervision. Any further work required to fulfil the terms of the brief was carried out by hand.

The stratification of all excavated areas was recorded whether or not significant archaeological deposits were identified.

All excavation and on-site recording was carried out according to standard CFA procedures, principally by drawing, photography and by completing standard CFA record forms.

The positions of all archaeological features were surveyed using industry standard electronic surveying equipment.

3. ARCHAEOLOGICAL RESULTS

3.1 General

Numbers in bold in the following text refer to contexts, a full list of which is contained in Appendix 1.

The soil stripping comprised two areas situated just down from the crest of a plateau where a disused landfill is located, one area on a north-east facing slope and the other to the south on a south-east-facing slope. Towards the crest of the hill, the deposits consisted of an upper topsoil / modern ploughsoil (**001**), containing evidence of re-deposited modern material from the landfill on the upper slope, to a depth of 0.3m to 0.4m overlying sandy natural (**002**). Further down slope, there was up to 0.5m of topsoil (**001**) and up to 1.3m of slope-wash overlying sandy natural (**002**).

3.2 Summary of features excavated (Figs 1a-c)

This programme of works led to the identification of part of a potential rectilinear ditched enclosure (**033**), six fire-pits (**028**, **039**, **052**, **098**, **169** and **258**), a possible kiln (**130**) and flue (**134/267**). Underlying the possible kiln were pits (**139**, **164**, **166** and **169**). A further sixty-seven pits of varying form were also identified. The majority of the identified features were located within the presumed enclosed area as defined by ditch (**033**). Five pits did not appear to be associated with ditch (**033**): pits (**190**), (**192**), (**194**), (**196**) and (**198**). These pits were located on the south-east-facing slope where a previous phase of work had encountered several features (see CFA Report 3363). All of the features were subject to a full programme of excavation.

Ditch 033

Ditch **033** (see Figs 1a-b, Figs 2a-e and Figs 3a-h) was up to 80m in length by between 1.8m and 3m wide and up to 1m deep. The ditch was typically stepped to a narrow gully at its base. Thirteen 1m-1.5m wide slots (Fig. 1b) were excavated along its length, representing an excavated sample of c.18% of the feature. Unique context numbers were assigned to each slot excavated through (**033**). A clear terminus was present at its western end and it ran north-west to south-east below the brow of the slope then curved down slope forming a curved arc to the north-east where it appeared to be truncated and disappeared.

The ditch appeared to have been re-cut once by **180** (same as contexts **203**, **211**, **219**, **234**, **244** and **252**), perhaps intermittently (Figs 3b and 3f). This re-cut was typically 'V' shaped, and was observed in seven of the thirteen slots excavated along the entire length of the ditch (slots 5, 6, 7, 8, 9, 11 and 13). No finds were recovered from the basal deposits of **033** but residual sherds of Beaker pottery and one metal object was recovered from the upper fill of the re-cut (**181** and **034** respectively).

Where the ditch was well preserved it was reasonably substantial and appeared to be something more than just a relict field boundary, rather it appeared to be part of a possible enclosure. It appeared to potentially enclose the majority of the other features that were identified on the north-east facing slope. Certainly no features were found outside of what appeared to be the arc of the proposed enclosure.

Kiln 130 and Flue 134/267

The possible Kiln (**130**) (see Fig. 1b, Figs 4a-d and 5a-d) was located on a flat section of the north-east-facing slope near the north corner of the site. No superstructure appeared to survive but a heat-affected stone surface (**138**) measuring 1.5m by 1.2m by 0.4m in depth survived with a shallow cut measuring 2.2m long by 1.8m wide by 0.3m deep. Four possible pits (**139**, **164**, **166**, and **169**, (Figs. 4e and 5d) were sealed beneath the possible kiln. Several of these underlying pits were heavily disturbed by burrowing. One pit, **169**, contained possible heat-affected stone. No artefactual evidence was recovered from any of these underlying features.

The possible kiln was fully excavated; two loom weights, post-medieval clay pipe stem and a modern metal object were recovered from around the stone surface **138**, as well as fragments of burnt bone.

A discontinuous gully (**134** and **267**) ran from the possible kiln to the north-west. If the interpretation of the kiln is correct then the gully was possibly a flue. Gully **134** extended from the kiln to the north-west and measured 4m long by 0.8m wide by 0.18m deep and Gully **267**, a likely continuation of **134**, measured 4.67m long by 0.8m wide by 0.11m deep. There was a gap of around 1m between the two lengths of gully but they do appear to be associated and the gap could have been caused by plough truncation and erosion. No artefacts were recovered from **134** or **267**.

Fire-pits

Fire-pits **028** (see Fig.1b, Fig. 6a, and Fig.7a-b), **039**, **052** (see Fig. 6b, 7c-d), **098**, **169** and **258** were fairly evenly dispersed along the north-east slope, all within the area enclosed by ditch **033**. They measured between 0.3-1.8m in length by 0.3-1.5m wide by up to 0.3m in depth and contained heat-affected / fire-cracked stone and blackened charcoal-rich fills.

Prehistoric pottery sherds and a flint blade were recovered from the fill of **028**, and burnt bone was recovered from the fill of **258**.

Spread 051

Spread **051** (see Fig. 1b) was an oval area of blackened silty sand located approximately 3m north-east and down slope of fire-pit **052**, measuring 7.45m long by 4m wide by 0.1-0.2m in depth. This was heavily disturbed by bioturbation. No cut was discernible and no artefacts were recovered from this deposit.

Pits

Sixty-seven pits were encountered during this phase of works (Fig. 1b) and were mostly located within the area enclosed by ditch **033**. The pits varied between discreet circular pits, measuring 0.3m in diameter by 0.2m deep to (rarer) large pits measuring up to 3.5m long by 1.5m wide by up to 0.6m in depth. Full details of the pits are contained in Appendix 1.

There were two possible concentrations of pits within the area enclosed by **033**. The first comprised an area of thirteen pits around pit **062**, six of which appear to be intercut or re-cut pits. The second possible cluster of pits surrounded Kiln **130** and comprised twelve pits.

The five pits discovered to the south of ditch (**033**) were in two groups: a group of three large pits (**198**, **194** and **196**) and two smaller pits (**192** and **190**) along the north-east edge of excavation.

All pits encountered were half-sectioned, with between 30-40% of the total fully excavated. Prehistoric pottery fragments were recovered from the fills of Pits **105** and **258**.

Modern features

One modern curvilinear feature was excavated in the southern area (see Fig. 1c). It contained red ceramic drain fragments, modern plastic, modern glass and was likely the remains of an agricultural feature. Modern animal burials were also observed across the stripped area.

Plough-truncation was evident across the watching brief area with plough scarring observed along the top slopes and two furrows (**040** and **042**) recorded in the northern half of the strip area.

4. FINDS

Find type	Number	Weight (g)
Burnt Bone	>300	18
Clay pipe	1	2
Copper alloy	2	4
Loom weights	2	589
Iron	1	57
Lithic	4	10
Pottery	13	41
Vitrified material	156	11

Table 1. Finds summary

Table 1 provides a summary of all the finds from the excavation as well as from the residues from the sample processing. The majority are prehistoric, including pottery, and lithics; post-roman loom weights; the other finds are post-medieval and modern.

4.1 Pottery by Melanie Johnson

Two sherds of prehistoric pottery were recovered from context **106** (pit **105**), weighing 15g. They are plain body sherds, probably from the same vessel, of a coarse fabric with large stone inclusions. They are very abraded. On the basis of their fabric alone, they are more likely to date to the Neolithic or Bronze Age than to later periods.

Two sherds of Beaker pottery were recovered from the fill of the re-cut (**181**) of the possible enclosure ditch, weighing 17g. One of these is a base sherd, the other a body sherd and they are likely to be from the same vessel. They are both of a fine fabric decorated with comb impressions. Beaker pottery dates to the earliest Bronze Age.

Small fragments of prehistoric pottery were recovered during sample processing from contexts **029** and **259** (fire-pits **028** and **258** respectively). These sherds are too small to say anything further.

4.2 Loom-weights by Melanie Johnson

Two fired clay loom-weights were recovered from context **133**, the fill of kiln **130**. Both weights are pierced with a central perforation. One of the weights is cylindrical and measures approximately 70mm across by 50mm high with a perforation of 20mm diameter; the other is disc-shaped and has suffered damage, with chips and flakes missing from around its circumference, and measures approximately 90mm across and 40mm high with a perforation of 20mm diameter. Such weights were used in a warp-weighted loom and they but dating is not possible at present.

4.3 Lithics by Ann Clarke

The finest tool is a slug knife which is unfortunately unstratified. This is made on a long blade of dark grey mottled flint with some remnant chalky cortex down one side at the distal end. The knife has a plano-convex form and has been shaped with steep retouch down both sides which becomes less acute and more invasive towards the distal end. There is invasive flaking over the centre of the dorsal face on the distal end to shape a curved surface. The distal end has been shaped with asymmetrical notching to a probable tang though this also resembles a possible awl point.

This is a classic tool form dating to the Early Bronze Age and they are often found in burial contexts of this date. The presence of a knife like this could suggest Early Bronze Age funerary practices in the vicinity but its lack of context means that this cannot be confirmed. It appears generally fresh and unrolled which suggests that it was disturbed from its original context of deposition rather than it being re-deposited.

A blade of translucent cream flint was recovered from context **029**, the fill of fire-pit **028**. It was unburnt. This could date from the Late Mesolithic to the later Neolithic.

The other three lithics collected are small natural chunks from locally available brown chert and jasper.

4.4 Other Finds by Christina Hills

Burnt bone was recovered during the excavation and during sample processing from contexts around and within kiln **130** and fire pit **258**.

The copper alloy from the fill of ditch **035** has been broken and degraded and is one object broken into two pieces. It is a decorative fitting, with a circular top and a strap off it, the front is decorated with evidence of degraded iron. The back is damaged,

with a broken off shaft, which is circular in section. It is a possible dress accessory, but difficult to identify due to the damage to the object.

The iron is a corroded strap, with possible nails driven through the object. It is from the upper fill of kiln **130** and is probably post-medieval in date.

Vitrified material was all recovered from the soil sample processing, from pits **080**, **105**, **164** and linear feature **134**. It is all below the size of identification; the vitrified material from pits **080** and **164** was magnetic.

One piece of post medieval clay pipe stem was recovered from the upper fill of kiln **130**.

Nine sherds of pottery were unstratified, all of which were very degraded and broken and are probably part of a modern plant pot.

5. ENVIRONMENTAL EVIDENCE

by Mhairi Hastie

A total of twenty-three bulk soil samples were retained for palaeoenvironmental analysis during the archaeological investigations.

Ten of these soil samples (Table 2), taken from a selection of different features uncovered on the site, were processed through a system of flotation. The floating debris (flot) was collected in a 250 μ m sieve and the material remaining in the tank (retent) was washed through a 1mm mesh. Both the flots and the retents were air-dried; the retents were then sorted by eye and any archaeological significant material removed. The flots were scanned using a binocular microscope (x10-x200 magnifications) and the presence of any charred plant remains recorded.

Sample No.	Context no.
14	029
19	081
24	106
25	099
28	135
29	141
32	216
33	236
35	259
36	260

Table 2. List of samples processed

Results

The results are summarised in Table 3 (Composition of Flots) and Table 4 (Composition of Retents). The results are organised by feature type and the findings are expressed quantitatively using the following criteria: + = rare, ++ = occasional, +++ = common and ++++ = abundant.

Little archaeological material was recovered from the samples, and the small quantity does not allow for any detailed discussion.

Composition of Samples

Cereal Grain: Carbonised cereal grains were recovered from five of the samples taken from the fills of pits (**080**, **105** and **164**), a possible kiln flue (**134**) and the possible enclosure ditch (**215/033**). Only one or two grains were recovered from each sample. Initial identification indicates the presence of hulled barley, oat and possible glume wheat. Most of the grains were poorly preserved and much abraded. None of the oat was found with hulls (palae/lemma) attached and the identification of the presence of either the wild or cultivated species could not be gained. Although the cereal grain assemblage is small the presence of hulled barley and possible glume wheat does suggest a potential prehistoric date for the features.

Wild taxa: Occasional seeds of wild taxa were recovered from four samples taken from the fills of two pits (**080** and **105**) a possible kiln flue (**134**) and the possible enclosure ditch (**215/033**). The wild taxa included seeds of sedge (*Carex* sp.), stinging nettle (*Urtica dioica*), buttercup (*Ranunculus* sp.) and dock (*Rumex* sp.), along with the silqua of wild radish/jointed charlock (*Raphanus Raphanistrum*). Most of these are common taxa of disturbed ground and probably growing on or near the site, or in cultivated fields along with the cereals.

Other Plant Remains: Small fragments of carbonised nutshell were recovered from three of the samples taken from the fill of a pit (**105**) and a possible kiln flue (**134**) and occasional fragments of carbonised rhizomes (underground stem/roots) were noted in the fill of one pit (**105**).

Wood Charcoal: Wood charcoal was recovered from all of the samples; in most cases the charcoal was only present in small amounts and was much abraded. Only two samples, the fills of fire pit (**028**) and fill of a possible kiln flue (**134**) contained sufficiently large enough fragments of charcoal for AMS dating.

Spatial Distribution

The bulk of the palaeoenvironmental remains were recovered from pits **080**, **105** and **164**, a possible kiln flue (**134**) and the possible enclosure ditch (**215** and **235**, same as **033**). The material comprises a low level mixture of domestic debris; recovery of albeit small amounts of carbonised cereal grain, weed seeds and nutshell may suggest that small-scale crop processing or food processing was being carried out in the vicinity.

Table 3. Composition of Flots

Feature type	Context no	Sample no	Fill of	Approx. Flot vol (ml)	Cereal grain			Weed seeds	Rhizomes	Nutshell	Wood charcoal	Burnt bone
					Qty	Pres.	Id.	Qty				
Fire pits	029	14	028	100							++++	
	099	25	098	20							+++ (SF)	
	259	35	258	20							+++ (SF)	+ (VSF)
	260	36		10							+ (VSF)	
Pits	081	19	080	20	+	much abraded	cf. wheat sp. cereal indet	+			++ (VSF)	
	106	24	105	50	+	abraded	barley sp.	+	++	+	++++	
	141	29	164	20	+	varied pres.	barley cereal indet				+ (VSF)	
Kiln Flue	135 (UF)	28	134	50	++	varied pres.	hulled barley oat	+		+	+++	
Possible Enclosure	236 (BF)	33	235 (033)	30	+	much abraded	barley oat	+			++ (VSF)	
	216 (UF)	32	215 (033)	40							+++ (VSF)	

Table 4. Composition of Retents

Feature type	Context no	Sample no	Fill of	Pottery	Lithic	Slag (possible)	Burnt Bone	Nutshell	Wood charcoal
Fire pits	029	14	028	+	+				+++
	099	25	098						+
	259	35	258	+			++		+
	260	36		+ (SF)			++		+
Pits	081	19	080			+			+ (SF)
	106	24	105			+ (or cinders)		+	++
	141	29	164			+	++		
Kiln Flue	135 (UF)	28	134			+	+ (VSF)		
Possible Enclosure	236 (UF)	33	235 (033)						
	216 (BF)	32	215 (033)						+

Key: + = rare, ++ = occasional, +++ = common and ++++ = abundant

SF = small fragments (<5mm in dia.)

VSF = very small fragments (<2mm in dia.) BF = basal fill, UF = upper fill

6. CONCLUSION

An archaeological watching brief was carried out during topsoil stripping at Upper Dalhousie Quarry. Because of the sandy soil the area had been affected by deep agricultural ploughing and planting of parsnips and other deep rooting vegetables such as carrots. It was also obvious that the area had been significantly affected by animal burrowing. This made feature identification slightly problematic in places, however, a number of features of archaeological interest were identified and these included:

- Part of a possible rectilinear enclosure ditch
- A probable kiln with associated flue
- Six fire pits
- A deposit of burnt ashy material
- Sixty-seven other pits.

If the length of ditch does represent part of a rectilinear enclosure then it has been significantly affected by truncation, or it was never completed, or was not a full enclosure but rather a barrier of some sort. Its' interpretation as part of an enclosure arose in part from its size and in part from the fact that it appeared to enclose the features on the north-east facing slope. However, the enclosing effect may be purely due to a chance distribution of features. What appeared to be a clear terminus was present at the northwest end of its exposed length. It seems unlikely that this was an entrance as no continuation was identified and the edge of the stripped area was about 20m distant from the terminus. Given this distance it would be expected that any continuation would be identified between the terminus and the edge of the site. The incomplete nature of this feature makes any interpretation difficult and its location on a slope does make the idea of an enclosure seem less likely, although the act of enclosure does not have to signify any sort of defensive act.

Six of the pits that were excavated appeared to have been fire pits due to the presence of burnt stone, charcoal and scorched sand indicating that some form of burning in-situ had taken place. Interestingly two of these (**028** and **258**) contained prehistoric pottery and **028** also contained a prehistoric flint, although this was un-burnt.

The stone base of a probable kiln was identified, this also appeared to have an associated flue structure. Vitrified material and burnt grain and nutshell were recovered from the possible flue.

The majority of the individual pit features were clearly cut features with well defined edges, however, they did not appear to have any discernible function or form any potential structural settings. The majority of these features contained charcoal, and where samples were processed cereal grains, wild seeds and nutshell was also recovered although in small quantities.

The palaeoenvironmental evidence suggested that we may have evidence of small-scale crop processing or food processing being carried out in the vicinity. This might

account for the presence and morphology of the possible enclosing feature (temporary windbreak?), the possible kiln, the fire-pits, the spread of burnt ashy material and the presence of charcoal in many for the pit features. The cereal grain assemblage may suggest a potential prehistoric date for this, and the majority of the recovered artefacts were also prehistoric. No evidence of settlement was identified but this could simply have been a temporary processing located area away from the settlement.

Further watching briefs are required during future phases of topsoil stripping at the quarry as part of the planning condition placed upon the development.

A programme of post-excavation analysis and publication will be agreed with the Midlothian Council Archaeological Advisor at the conclusion of the works.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and copies of reports will be lodged with the Midlothian Council Sites and Monuments Record.

A *Discovery and Excavation in Scotland* entry will be submitted and the project will be recorded via the OASIS protocol following the completion of all work required under the mitigation programme.

7. REFERENCES

Gray, H 2010 *Upper Dalhousie Quarry, Midlothian. Archaeological Works. Interim Assessment Report*. CFA Archaeology Ltd Report No. 1794.

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APPENDIX 1: Context Register

Context	Fill Of	Description
001		Topsoil/ Overburden. A homogenised ploughsoil consisting of a mid-light brown moderately compact silty sand. Frequent glass, white-glazed pot and charcoal inclusions. Upper 200mm is redeposited topsoil (ploughed for existing parsnip crop) from landfill with plastics, metal and glass. Varies in depth up to 1.3m deep. Heavy bioturbation evident.
002		Natural subsoil consisting of moderately compact mixed fine and coarse light yellow sand, fine gravels with occasional lenses of lignite.
003-023		<i>See Interim Report 3363.</i>
024		Cut of sub-circular basin-like pit, 1m in diameter by 0.35m deep
025	024	Fill of 024. Mid brown compact silty gravel with frequent charcoal inclusions. Tip lines present.
026		Cut of sub-circular pit, 0.30m in diameter by 0.25m deep. Bioturbation evident.
027	026	Fill of 026. Mid brownish grey silt with charcoal flecks.
028		Cut of sub-oval fire-pit, 1.40m long by 1m wide by 0.20m deep
029	028	Black and dark brown very compact silty sand with fire cracked stone present. Same as 030 deposit separated by animal burrows.
030	028	Black and dark brown very compact silty sand with fire cracked stone present. Same as 029 deposit separated by animal burrows.
031		Area of heavy plough-scarring (small furrows) located at top of slope measuring 8m by 8m each scar 0.25 to 0.35m in width and 0.05m apart.
032	031	Mid-brown moderately compact silty sand with occasional white glazed pottery.
033		Cut of ditch potentially forming part of a rectilinear enclosure. Measured up to 80m in length by 1.8m-3m in width and up to 1m in depth. Sides varied and it was occasionally stepped to a narrow base. A clear terminus was present at its western extent. It ran NW-SE along the brow of the slope then at its east end ran SW to NE down slope where it appeared to have been truncated by ploughing and disappeared. It may have originally continued into the forestry area to the NE of the strip area. This ditch appeared to have been re-cut at least once by [180]. At its base is a clear gully.
034	033	Primary fill. Mid-brown firm silty sand with small stones and occasional modern and prehistoric ceramic fragments present. Very similar to the overburden of ploughsoil.
035		Cut of circular pit, 0.50m in diameter by 0.17m deep
036	035	Dark brown moderately compact silty sand.
037		Cut of sub-circular pit, 0.33m in diameter by 0.11m deep
038	037	Brownish grey compact silty sand with charcoal fragments.
039		Cut of sub-oval fire-pit, 0.65m long by 0.50m wide by 0.21m deep
040	039	Light brown moderate to loose silty sand with charcoal flecks.
041		Cut of linear, likely a furrow. 8m long by 1.6m wide by 0.12m deep. NW-SE orientation.
042	041	Mid brown soily loose silty sand and gravel.
043		Cut of linear, likely a furrow. 8m long by 1.5m wide by 0.10m deep. NW-SE orientation.
044	043	Mid brown loose silty sand.
045		<i>VOIDED- Animal Burrow</i>
046		<i>VOIDED- Animal Burrow</i>
047		<i>VOIDED- Animal Burrow</i>
048		<i>VOIDED- Animal Burrow</i>
049		Cut of oval pit, 0.90m by 0.45m by 0.45m deep.
050	049	Mid brown and orange moderately compact silty sand with lenses of natural sand and some charcoal flecks.
051		Amorphous, roughly oval blackened spread of moderately compact silty sand and possibly degraded charcoal measuring 7.45m long by 4m wide by 0.10m-

Context	Fill Of	Description
		0.20m in depth. Heavy bioturbation (root and burrow). May be a trampled surface over burnt material waste. Doesn't appear to be cut, rather stained into the natural. No finds or in-situ burning evident.
052		Possible remains of a fire pit consisting of a concentration of stones ranging in size from 5cm to 30cm. There was no evidence of burning on the stones, yet the natural below was heat affected (053) .
053		Below 052 stones, the natural subsoil was heat affected. This appears to be the base of some firing activity. The heat affected area measured 1.8m by 1.5m but no cut was apparent.
054		Cut of sub-circular pit, 0.40m in diameter by 0.17m deep
055	054	Mid-dark brown moderately compact silty sand with charcoal.
056		Cut of sub-circular/ oval pit, 0.70m long by 0.45m wide by 0.38m deep. Heavy bioturbation.
057	056	Mid brownish black moderately compact silty sand.
058		Cut of sub-oval pit, 0.40m long by 0.30m wide by 0.22m deep. Re-cut of 068 pit? Bioturbation evident.
059	058	Mid brown moderately compact silty sand. Heavy bioturbation.
060		Cut of circular pit, 0.55m in diameter by 0.40m deep.
061	060	Mid-dark brown moderately compact silty sand with charcoal and some bioturbation.
062		Cut of circular pit, 0.20m in diameter by 0.18m deep.
063	062	Mid-dark brown moderately compact silty sand with charcoal and some bioturbation.
064		Cut of oval pit, 0.40m by 0.38m by 0.22m deep.
065	064	Mid-dark brown moderately compact silty sand with charcoal pieces.
066		Cut of sub-circular pit, 0.35m in diameter by 0.24m deep. Heavy bioturbation.
067	066	Mid-dark brown moderately compact silty sand with charcoal pieces.
068		Cut of sub-oval pit, 0.70m by 0.50m by 0.35m deep. Cut by 058 pit.
069	068	Mid-dark brown moderately compact silty sand with charcoal flecks and gravels.
070		Cut of sub-oval pit, 0.38m by 0.32m by 0.46m deep. Cut by 068 pit.
071	070	Mid-dark brown moderately compact silty sand with charcoal flecks and gravels.
072		Cut of sub-oval pit, 0.40m in diameter by 0.25m deep. Cut by 074 pit.
073	072	Mid-dark brown moderately compact silty sand with charcoal flecks.
074		Cut of sub-circular pit, 0.30m in diameter by 0.18m deep. Cuts 072 pit.
075	074	Mid-dark brown moderately compact silty sand with charcoal flecks.
076		Cut of circular pit, 0.40m in diameter by 0.23m deep. Cuts 078 pit.
077	076	Mid brown moderately compact silty sand with charcoal flecks.
078		Cut of circular pit, 0.60m in diameter by 0.30m deep. Cut by 076 pit.
079	078	Mid brown moderately compact silty sand with charcoal flecks.
080		Cut of sub-circular pit, 0.31m in diameter by 0.14m deep.
081	080	Red brown moderately compact silty sand with burnt sand vitrified material, burnt clay, flecks of bone and charcoal flecks.
082		Cut of sub-circular pit, 0.50m in diameter by 0.38m deep.
083	082	Red brown moderately compact silty sand with burnt sand, slag (glass?)or cinders, burnt clay, flecks of bone and charcoal flecks. Lower extents of fill likely bioturbation/ redeposited natural.
084		Cut of sub-circular pit, 0.42m in diameter by 0.27m deep.
085	084	Red brown moderately compact silty sand with burnt sand, slag (glass?)or cinders, burnt clay, flecks of bone and charcoal flecks.
086		Cut of sub-circular pit, 0.50m in diameter by 0.45m deep.
087	086	Upper fill. Mid brown moderately compact silty sand with charcoal flecks.
088		Cut of sub-circular pit, 0.40m in diameter by 0.30m deep.
089	088	Pale-mid brown moderately compact silty sand with occ. charcoal fragments.
090		Cut of sub-circular pit, 0.50m in diameter by 0.65m deep. Cut by 092 pit.

Context	Fill Of	Description
091	090	Mid brown moderately compact silty sand.
092		Cut of sub-circular pit, 0.48m in diameter by 0.38m deep. Cuts 090 pit.
093	092	Dark brown soily silty sand.
094		Cut of sub-circular pit, 0.38m in diameter by 0.15m deep.
095	094	Mid brown moderately compact silty sand with charcoal flecks.
096		Cut of sub-rectangular pit, 0.80m by 0.43m by 0.30m deep.
097	096	Mid brown moderately compact silty sand with charcoal flecks.
098		Cut of sub-circular fire-pit, 1m in diameter by 0.20m deep.
099	098	Mid brown to black moderately compact silty sand and small stones with charcoal flecks.
100		Cut of sub-oval pit, 1.52m exposed by 1.30m by 0.30m deep.
101	100	Light greyish brown moderately compact silty sand with charcoal flecks.
102		Cut of sub-oval pit, 0.45m by 0.25m by 0.12m deep. Heavy bioturbation.
103	102	Reddish brown moderately compact silty sand with charcoal flecks.
104	086	Lower fill. Pale brown silty sand with occ. Charcoal fragments.
105		Cut of sub-oval pit, 1.35m by 0.85m by 0.31m deep. Heavy bioturbation.
106	105	Mid to dark brown moderately compact silty sand with charcoal flecks and a few small stones. Contains potential prehistoric pottery fragments.
107		Cut of sub-oval pit, 0.80m by 0.50m by 0.20m deep. Heavy bioturbation.
108	107	Mid brown moderately compact silty sand.
109		Cut of amorphous linear, 6m long by 2.20m wide by up to 0.08m deep. Likely a furrow. Appears to cut 033 ditch.
110	109	Mid brown moderately compact silty sand.
111		Cut of sub-circular pit, 0.40m in diameter by 0.20m deep.
112	111	Mid brown moderately compact silty sand.
113		Cut of oval pit, 0.50m by 0.40m by 0.20m deep.
114	113	Orange brown firm silty sand with occ. chunks of charcoal.
115		Cut of sub-circular pit, 0.30m in diameter by 0.20m deep.
116	115	Mid brown moderately compact silty sand with charcoal flecks.
117		Cut of sub-circular pit, 0.30m in diameter by 0.25m deep.
118	117	Dark brown moderately compact silty sand with charcoal flecks.
119		Cut of oval pit, 0.50m by 0.40m by 0.23m deep.
120	119	Orange brown firm silty sand with occ. chunks of charcoal.
121		Cut of sub-oval pit, 0.75m by 0.65m by 0.37m deep. Heavy bioturbation. Possible in-situ burning. Cut by 123 pit.
122	121	Light brown moderately compact silty sand with charcoal and bone flecks.
123		Cut of sub-oval pit, 0.60m by 0.45m by 0.30m deep. Heavy bioturbation. Cuts 121 pit and is by 125 pit.
124	123	Light brown moderately compact silty sand with charcoal and bone flecks.
125		Cut of sub-circular pit, 0.50m by 0.40m by 0.26m deep. Cuts 123 pit.
126	125	Mid brown moderately compact silty sand with occ. Charcoal and bone flecks.
127		Cut of irregular/ sub-circular pit, 0.80m in diameter by 0.80m deep.
128	127	Upper fill. Dark brown to black moderately compact silty sand with charcoal and bone flecks.
129	127	Lower fill. Mid brown silty sand with occ. charcoal and bone flecks.
130		Cut of amorphous/ sub-oval potential Kiln. 2.2m long by 1.8m wide by up to 0.30m in depth cut into slope likely to create flat construction surface.
131		Voided-Bioturbation
132		Large spread of burnt material comprising dark brown to black moderately compact silty sand, with burnt subsoil, clumps of clay and charcoal at 2.80m by 2.70m by 0.20m deep. Is above 142 pit.
133	130	Upper fill of Kiln. Brownish grey moderate to loose silty sand measuring up to 3m long by 2.7m wide by 0.10m deep. May be disturbed spread from plough action.
134		Cut of linear, extending westwards from 130 up to 4m long by 0.80m wide by 0.18m deep. Likely a flue related to 130 Kiln. Appears to be cut at its east

Context	Fill Of	Description
		end by 136 pit.
135	134	Light brown moderately compact silty sand with charcoal flecks.
136		Cut of oval pit, 0.80m by 0.70m by 0.35m deep. Cuts 134 flue. Heavy bioturbation.
137	136	Dark brown moderately compact silty sand with charcoal flecks
138	130	A single layer of scorched reddish pink sandstone and mudstone forming slabs of a potential surface. Unworked sub-rounded stones measuring 150mm-400mm each covering an area of 1.50m by 1.20m.
139		Cut of circular pit, 0.55m in diameter by 0.22m deep. Located on northern edge of 130 Kiln. Observed to cut 164 scorched sand under 138 Kiln stones. Heavy bioturbation.
140	139	Dark grey moderately compact silty sand with charcoal flecks.
141	164	Upper fill. Scorched pink very compact sand with occ. sandstone frags and charcoal. 1.5m long by 1.20m wide by -.10m deep. Located directly under Kiln stones 138. Scorched natural subsoil with debris from Kiln activity.
142		Cut of sub-circular pit, 0.80m in diameter by 0.80m deep. Located under 138 Kiln stones. Heavy bioturbation.
143	142	Mid to dark brown moderately compact silty sand with occ. charcoal flecks.
144		Cut of oval pit, 0.40m in diameter by 0.35m deep. Heavy bioturbation, relationship with 148 pit hard to define.
145	144	Mid brown moderately compact silty sand with occ. charcoal flecks.
146		Cut of oval/ sub-circular pit, 0.50m by 0.40m by 0.15m deep.
147	146	Mid brown moderately compact silty sand.
148		Cut of circular pit, 0.42m in diameter by 0.25m deep. Heavy bioturbation, relationship with 144 and 150 pits hard to define. Likely cuts 150 and cut by 144.
149	148	Mid brown moderately compact silty sand with occ. charcoal flecks.
150		Cut of oval/ sub-circular pit, 0.62m by 0.50m by 0.42m deep. Heavy bioturbation likely cut by 148.
151	150	Mid to dark brown moderately compact silty sand with occ. charcoal flecks.
152		<i>Voided-Bioturbation</i>
153		<i>Voided-Bioturbation</i>
154		Cut of sub-circular pit, 0.45m in diameter by 0.38m deep.
155	154	Dark brown moderately compact silty sand with occ. charcoal and bone flecks.
156		Cut of oval pit, 0.40m by 0.35m by 0.22m deep. Heavy bioturbation nearby.
157	156	Dark to mid brown moderately compact silty sand with occ. charcoal flecks.
158		Cut of oval pit, 1m by 0.60m by 0.30m deep. Lignite at base, possible lignite prospecting-pits?
159	158	Dark brown moderately compact silty sand with occ. charcoal and lignite flecks.
160		Cut of linear 1.40m long by 0.40m wide by 0.25m deep. Cut by 158.
161	160	Mid brown moderately compact silty sand with occ. charcoal flecks.
162		<i>Voided-Natural feature</i>
163		<i>Voided-Natural feature</i>
164		Cut of oval pit, 0.80m by 0.65m by 0.21m deep. Underlies 130 Kiln. Cut number assigned to burnt natural sand 141 under stones 138.
165	164	Lower, basal fill. Lens of greyish light brown firm sand with charcoal. 165 and 141 sampled as a whole.
166		Cut of sub-circular pit, 1m by 0.90m by 0.60m deep. Underlies Kiln 130.
167	166	Light brown firm sand with charcoal. 0.50m by 0.35m by 0.6m. Northeast fill.
168	166	Dark brown firm silty sand with charcoal. Southwest fill. May represent burrowing.
169		Cut of sub-circular pit, 0.35m in diameter by 0.20m deep. Cuts 141 scorched sand. May be evidence of in-situ burning or potential fire-pit. However area is heavily disturbed by bioturbation.
170	169	Mid brown firm sand with lignite and stone. Contained white fire-cracked

Context	Fill Of	Description
		stone.
171		Cut of oval pit, 1.30m by 1.25m by 0.40m deep.
172	171	Mid orange-brown moderately compact silty sand.
173		Cut of large sub-rectangular pit, 3.5m by 1.50m by 0.60m deep. SE end truncated by animal burrowing.
174		Cut of sub- oval pit, 1.40m by 0.60m by 0.30m deep.
175	174	Mid to dark brown moderately compact silty sand with occ. charcoal flecks.
176	173	Upper fill. Dark brown moderately compact silty sand with lignite and small stones.
177	033	Dark orange brown firm silty sand. 0.10m thick in average.
178	173	Lens of black firm sand at 0.10m thick.
179	173	Basal fill. 0.25m thick. Dark brown firm silty sand with lignite.
180		Cut of ditch. Represents a re-cut of 033 ditch. Generally a 'V' shaped ditch up to 80m long by 1.2m average width by up to 0.50m deep. Not always visible in 033 slot sections. Slightly uneven but mostly located along the southern, higher edge of 033.
181	180	Primary fill. Dark orange brown firm silty sand with occ. stones.
182	033	Mid-orange brown soft silty sand at 0.35m wide by 0.20m deep in average. Forms gully-like fill of base of 033 ditch.
183	Slot 5 033	Mid orange-brown moderately compact silty sand with occ. Pebbles. Located within the terminal end Slot 5 of 033. Comprises upper fill of ditch, or rather overburden of a plough/subsoil overlying the ditch deposits.
184	Slot 4 033	Basal fill of 033 ditch along northern edge. Brownish orange firm sand at 0.38m wide by 0.20m deep.
185	Slot 4 033	Basal fill of 033 ditch along southern edge. Mid orange brown firm silty sand at 0.31m wide by 0.25m deep. Same as 177 or 182?
186	180	Dark orange brown moderately compact silty sand. 0.70m wide by 0.11m deep. Fill of 180 re-cut of 033.
187	Slot 4 033	Mid yellow brown firm sand. 1.10m wide by 0.14m deep. Fill of 033, may be same as 034 fill.
188	Slot 3 033	Mid brownish grey moderately compact sand at 2m wide by 0.4m in depth. Upper fill may represent later ploughsoil/ subsoil overburden.
189	Slot 3 033	Red brown firm sand at 0.50m wide by 0.17m in depth. Upper fill may represent later ploughsoil/ subsoil overburden.
190		Cut of sub-oval pit 1m long by 0.90m wide by 0.40m deep.
191	190	Mid brown moderately compact silty gravel with black mottling.
192		Cut of sub-circular pit, 0.35m in diameter by 0.50m deep.
193	192	Mid brown moderately compact silty gravel with black mottling.
194		Cut of sub-square/oval pit, 1.45m in diameter by 0.43m deep.
195	194	Mid brown firm silty gravel with small stones.
196		Cut of sub-rectangular/oval pit, 1.76m by 1.20m by 0.35m deep.
197	196	Light brown firm silty gravel with small stones.
198		Cut of sub-circular pit, 1.80m by 1.60m by 0.75m deep.
199	198	Upper fill. Mid brown firm silty sand.
200	198	Lower fill. Mixed sands, redeposited natural.
201		Modern amorphous curvilinear agricultural feature or 1960s landfill activity. 5m in diameter by 0.35m deep.
202	201	Dark greyish brown soily firm silty gravel with modern plastic, glass, glazed white ceramic.
203	Slot 6 033	Same as 180, 211, 219. Re-cut of 033. 0.80m wide by 0.40m deep.
204	Slot 6 033	Basal fill of 203. Grey-brown moderately compact silty sand. 0.18m deep.
205	Slot 6 033	Upper fill of 203. Mid brown moderately compact sand. 0.26m deep.
206	Slot 7 033	Same as 033. 2.4m wide by 0.90m in depth.

Context	Fill Of	Description
207	Slot 7 033/206	Basal fill of 206. Dark brown firm sand. 0.25m in depth.
208	Slot 7 033/206	Fill of 206. Light yellow brown silty sand. 0.14m thick. Redeposited natural.
209	Slot 7 033/206	Fill of 206. Mixed light grey brown coarse sand. 0.15m thick.
210	Slot 7 033/206	Fill of 206. Mid grey brown silty sand. 0.22m thick.
211	Slot 7 033/206	Re-cut of 033/206 in slot 7. Same as 180. 1.8m wide by 0.55m in depth.
212	Slot 7 033/211	Fill of 211. Mid brown firm silty sand.
213		Cut of sub-oval pit, 1m long by 0.80m by 0.27m in depth. Located near Slot 8 through 033 ditch.
214	213	Mixed mid brown firm silty sand.
215	Slot 8 033	Same as 033. 1.30m wide by 0.60m in depth.
216	Slot 8 033/215	Basal fill of 215. Grey-brown silty sand. 0.25m thick.
217	Slot 8 033/215	Mid yellow brown firm silty sand 0.12m thick.
218	Slot 8 033/215	Mid grey silty sand with small stones 0.11m thick.
219	Slot 8 033	Re-cut of 033/215. Same as 180, 211, 219. 1.1m wide by 0.30m in depth.
220	Slot 8 033/219	Mid brown firm silty sand.
221		Cut of irregular pit adjacent to 033 Slot 9. 1.90m by 1.80m by 0.34m in depth. Relationship with ditch unclear.
222	221	Brown moderately compact silty sand with traces of redeposited natural on edges.
223	Slot 10 033	Same as 033. 1m wide by 0.60m in depth.
224	Slot 10 033/223	Basal fill of 223. Orange-brown loose to firm sandy gravel. 0.20m thick.
225	Slot 10 033/223	Fill of 223. Dark orange brown firm gravelly sand.
226	Slot 10 033	Re-cut of 033. Same as 180. 1.30m wide by 0.22m in depth.
227	Slot 10 033/226	Fill of 226. Very dark brown moderately compact silty sand.
228	Slot 11 033	Same as 033. 1.10m wide by 0.47m in depth.
229	Slot 11 033/228	Basal fill of 228. Coarse compact light greyish brown sand at 0.11m thick.
230	Slot 11 033/234	A coarse yellow sandy lens within 232 deposit. 0.03m thick.
231	Slot 11 033/228	Redeposited natural, slumping, on north side of 228. 0.05m thick.
232	Slot 11 033/234	Lower fill of 234 re-cut. Mid brown firm silty gravel. 0.20m thick.
233	Slot 11 033/234	Upper fill of 234 re-cut. Mid brown firm silty sand with small stones.
234	Slot 11 033	Re-cut of 033. Same as 180. 1.10m wide by 0.30m in depth.
235	Slot 12 033	Same as 033. 0.6m wide by 0.50m in depth. Likely truncated by ploughing so as to leave only lower extents of 033.
236	Slot 12	Basal fill of 235. Grey-orange loose sand. 0.20m thick.

Context	Fill Of	Description
	033/235	
237	Slot 12 033/235	Fill of 235. Orange brown gravelly sand. 0.25m thick.
238	Slot 12 033/235	Upper fill of 235. Mid brown moderately compact silty sand.
239		Cut of oval pit. 1.20m long by 0.65m wide by 0.35m deep.
240	239	Mid to dark greyish brown moderately compact silty sand.
241	Slot 9 033	Same as 033. 1.50m wide by 0.60m in depth.
242	Slot 9 033/241	Basal fill of 241. Orange brown gritty firm sand with lenses of lignite. 0.30m thick.
243	Slot 9 033/241	Fill of 241. Orange white firm sand. 0.10m thick.
244	Slot 9 033	Re-cut of 033. Same as 180. 1.50m wide by 0.38m in depth.
245	Slot 9 244	Fill of 244. Orange brown firm silty sand.
246	Slot 13 033	Same as 033. 1.80m wide by 0.55m in depth.
247	Slot 13 033/246	Basal fill of 246. Coarse mid pinkish brown sand. 0.11m thick.
248	Slot 13 033/246	Fill of 246. Coarse light yellow brown firm sand. 0.11m thick.
249	Slot 13 033/246	Fill of 246. Mid yellow brown firm sand. 0.11m thick.
250	Slot 13 033/246	Fill of 246. Light yellow brown firm sand and gravel. 0.17m thick.
251	Slot 13 033/246	Fill of 246. Mid greyish brown firm silty gravel. 0.15m thick.
252	Slot 13 033	Re-cut of 033. Same as 180. 1.80m wide by 0.55m in depth.
253	Slot 13 033/252	Fill of 252. Mid brown firm silty gravel.
254		Cut of sub-oval pit, 0.38m by 0.34m by 0.18m in depth.
255	254	Brown moderately compact silty sand with traces of black material on base.
256		Cut of linear. 3.20m long by 0.40m wide by up to 0.08m in depth. Likely a furrow or plough scar.
257	256	Mid grey firm sand.
258		Cut of oval denuded fire-pit. 0.90m by 0.60m by 0.08m in depth. Likely heavily truncated by plough action.
259	258	Upper fill. Charcoal rich firm silty sand with bone flecks. 0.05cm thick.
260	258	Lower fill/ scorched natural. Burnt orange-pink sand with flecks of bone. 0.05m thick.
261		Cut of irregular pit. 0.70m by 0.35m by 0.45m in depth. Heavy bioturbation.
262	261	Mid brown moderately compact silty sand.
263		Cut of sub-circular pit, 0.50m in diameter by 0.40m in depth. Heavy bioturbation.
264	263	Mid brown moderately compact silty sand.
265		Cut of sub-oval pit, 0.67m by 0.59m by 0.15m in depth.
266	265	Brown firm silty sand with black mineral lenses on base.
267		Cut of linear. 4.60m long by 0.80m wide by 0.11m in depth. Likely a continuation of 134 flue from 130 Kiln. Small animal burrowing evident.
268	267	Brown firm silty sand.

APPENDIX 2: Photographic Register

Photo No.	Description
1	Pre-ex general site shot
2	Pre-ex pit [024]
3	NW facing section pit[024]
4	NW facing section pit[024] close up
5	Mid-ex pit [024] from above
6	General shot along winrow 1 with pit [024]
7	Pre-ex pit [026]
8	N facing section pit [036]
9	Working shot with plough scarring (031)
10	Pre-ex pit [028]
11	Pre-ex pit [028]
12	N facing section pit [028] quadrant
13	W facing section pit [028] quadrant
14	General post ex of quadrant through [028] pit
15	General post ex of quadrant through [028] pit
16	Working shot winrow 3
17	W facing section [028] pit
18	Pre-ex pit [037]
19	N facing section pit [037]
20	Cleaning of arc of pits, mid ex. Winrow 3
21	Cleaning of arc of pits, mid ex. Winrow 3
22	Mid ex [039] pit
23	Working shot ditch [033]
24	Mid ex [039] pit
25	Mid ex [039] pit
26	Pre-ex of probable furrow [041] winrow 2
27	Post-ex [037] pit
28	SE facing section of [041] furrow
29	General post ex shot of slot through [041] furrow
30	NE facing section [024] pit (extended)
31	NE facing section [024] pit (extended)
32	Post-ex firepit [028]
33	Post-ex firepit [028]
34	SE facing section of furrow [043]
35	General post-ex of slot through furrow [043]
36	General view over winrow 3 with ditch [033]
37	General view over winrow 2
38	General view over winrow 3 with ditch [033]
39	Pre-ex [049] pit
40	ENE facing section [049] pit
41	Pre-ex of large blackened spread (051) winrow 3
42	Pre-ex of large blackened spread (051) winrow 3
43	Post ex of first slot through (051)
44	Slot 1 (051) W facing section
45	Slot 1 (051) N facing section
46	Post-ex pit [049]
47	Working shots of (052) kiln
48	Working shots of (052) kiln
49	Slot 2 (051) S facing section
50	Slot 2 (051) W facing section
51	General post-ex shot of slots through (051)
52	Slot 3 (051) NE facing section
53	Slot 3 (051) SE facing section
54	Slot 3 (051) SW facing section

Photo No.	Description
55	Post ex slots through (051)
56	Post ex slots through (051)
57	Pre-Ex (052) kiln
58	SE facing section (052) kiln
59	SE facing section (052) kiln
60	SE facing section (052) kiln -close up in-situ burning
61	Mid-ex pit [054]
62	Pre-ex pit [060]
63	Pre-ex of pits [058], [068], [070]
64	Pre-ex pit [062]
65	Pre-ex pit [064]
66	Pre-ex pit [066]
67	NE facing section [056] pit
68	SE facing section [060] pit
69	E facing section [062] pit
70	S facing section [064] pit
71	S facing section [066] pit
72	Post-ex general shot of [064] and [066] pits
73	SW facing section of pits [058], [068], [070]
74	Mid-ex of pits [058], [068], [070]
75	Post-ex pit [035]
76	Post-ex pit [054]
77	Post-ex pit [060]
78	Pre-ex pits [072], [074]
79	S facing section pits [072], [074]
80	Pre-ex pit [076], [078]
81	Mid-ex pit [076], [078]
82	Mid-ex pit [076], [078]
83	Post-ex pits [072], [074]
84	Pre-ex pits [080], [082], [084]
85	Pre-ex pits [088], [086]
86	Pre-ex pits [090], [092]
87	Pre-ex pits [094], [096]
88	Pre-ex fire-pit [098]
89	N facing section [080] pit
90	NW facing section [082] pit
91	Mid-ex [082] pit
92	NE facing section [100] pit (runs into baulk)
93	Oblique Mid-ex [100] pit
94	Mid-ex [084] pit
95	SE facing section [084] pit
96	WSW facing section [102] pit
97	NE facing section [086]
98	SE facing section [088] pit
99	General shot over winrow 3 with pits[054] to [079]
100	SW facing section of pit [094]
101	Mid-Ex pit [094]
102	W facing section of pit [096]
103	Mid-Ex pit [096]
104	Mid-Ex pit [039]
105	N facing section of pit [039]
106	Half sectioned large pit [090] and [092]
107	NE facing section of firepit [098]
108	ENE facing section [105] pit
109	Oblique mid-ex [105] pit
110	Post ex slot through furrow
111	NE facing section pit [107]

Photo No.	Description
112	Post ex pit [105]
113	Post ex pit [105]
114	Post-ex firepit [098]
115	Ditch [033] cleaned, winrow 3
116	Ditch [033] cleaned, winrow 3
117	Ditch [033] cleaned, winrow 3 showing Slot 1
118	Ditch [033] cleaned, winrow 3 showing Slot 1
119	General view over winrow 3
120	Second large strip area, working shot in North corner
121	Pre-ex shot of second strip area
122	Oblique general shot of Slot 1 in ditch [033]
123	ENE facing section of Slot 1 in ditch [033]
124	WSW facing section of Slot 1 in ditch [033]
125	Oblique general shot of Slot 2 in ditch [033]
126	WSW facing section Slot 2 in ditch [033], North end
127	WSW facing section Slot 2 in ditch [033], South end
128	ENE facing section Slot 2 in ditch [033]
129	Second strip area working shots
130	Second strip area working shots
131	Pre-ex pit [111]
132	NE facing section pit [111]
133	Pre-ex pit [113]
134	NE facing section pit [113]
135	Pre-ex of pits [115], [117]
136	Pre-ex of pits [121] to [125]
137	SE facing section pit [115] and [117]
138	Pre-ex pit [119]
139	SE facing section pit [119]
140	Mid -ex/ W facing section [121], [123] and [125] pits
141	Oblique mid -ex [121], [123] and [125] pits
142	Post-ex pits [115] and [117]
143	Pre-ex of pit [127]
144	Possible kiln and flue cleaned up pre-ex, firepit [130]
145	Possible kiln and flue cleaned up pre-ex, firepit [130]
146	Possible kiln and flue cleaned up pre-ex, firepit [130]
147	Possible kiln and flue cleaned up pre-ex, firepit [130] (Flue end)
148	Working shot over [130] and [134]
149	SE facing section pit [127]
150	Full depth of pit [127]
151	General shot of Slot 1 through [130] kiln and flue [134]
152	N facing section of Slot 1 through [130] kiln and flue [134]
153	W facing section of Slot 1 through [130] kiln and flue [134]
154	General shot of Slot 1 through [130] kiln and flue [134]
155	Pre-ex shot of large firepit [131]
156	Pre-ex shot of large firepit [131]
157	General shot of Slot 2 through [130] kiln
158	General shot of Slot 2 through [130] kiln showing stone surface [138]
159	General shot of Slot 2 through [130] kiln showing stone surface [138]
160	General shot of Slot 2 through [130] kiln showing stone surface [138]
161	E facing section Slot 2 through [130]
162	SE facing section , quad 1 through [132]
163	SW facing section , quad 1 through [132]
164	General shot of quad 1 through [132]
165	General shot of [130] kiln with [138] stones exposed
166	General shot of [130] kiln with [138] stones exposed
167	General shot of [130] kiln with [138] stones exposed
168	E facing section of Slot 2 in [130] extended south

Photo No.	Description
169	NE facing section , quad 2 through [132]
170	NE facing section , quad 2 through [132]
171	NW facing section , quad 2 through [132]
172	Post-ex [142] pit
173	Post-ex [142] pit
174	Post-ex of slot through terminus [134]
175	Post-ex of slot through terminus [134]
176	W facing section terminus [134]
177	Pre-ex shot of pit [146]
178	SW facing section of pit [146]
179	General mid-ex shot of intercutting pits with [144]
180	Running section (North end) of [144] pits
181	Running section (South end) of [144] pits
182	Pre-ex [154] pit and burrow
183	[138] stones removed showing scorched sand beneath
184	[138] stones removed showing scorched sand beneath
185	Post-ex [139] pit
186	Post-ex [134] flue
187	W facing section pit [154]
188	NW facing section pit [156]
189	Pre-ex of intercutting pits [158] and [160]
190	NW facing section of pits [164] and [166]
191	NW facing section pit [166] detail
192	NW facing section pit [164] detail
193	Mid-ex plan view of pits [164], [166], [139] and [169]
194	SE facing section pit [158]
195	Mid-ex [136] baulk removal
196	Mid-ex [136] baulk removal, N facing section and [134]
197	SE facing section between [158] pit and [160] linear
198	SE facing section between [158] pit and [160] linear
199	SE facing section between [158] pit and [160] linear
200	Post-ex [136] and [134] and burrow
201	Post-ex [136] and [134] and burrow with baulk between [130] and [134]
202	Post-ex of baulk between [130] and [134]
203	Pre-ex of large pit [171]
204	NE facing section of [171] pit
205	General post-ex shot of pits [144], [148], and [150]
206	Pre-ex pit [173]
207	Pre-ex of triangular pit [174]
208	W facing section triangular pit [174]
209	General mid-ex of [173] pit
210	Pre-ex of ditch [033] winrow 4
211	Pre-ex of ditch [033] winrow 4 with terminus
212	Area under spread [132] post-ex
213	Area under spread [132] post-ex
214	NE facing section of pit [173]
215	NE facing section of pit [173]
216	NW facing section of pit [173]
217	SE facing section of pit [173]
218	SE facing section of pit [173]
219	SW facing section of pit [173]
220	General shot of slot through terminus [033] ditch winrow 4
221	W facing section of slot through terminus [033] ditch
222	General landscape shot with landfill area
223	General landscape shot with landfill area
224	W facing section of slot through terminus [033] ditch
225	N facing section of slot through terminus [033] ditch

Photo No.	Description
226	Post-ex of [171] pit
227	Post-ex of [171] pit
228	Post-ex pits under [130], [164], [169] etc
229	Post-ex pits under [130], [164], [169] close up
230	Post-ex pit [164]and [134] flue
231	Slot 1 ditch [033] E facing section recleaned
232	Slot 1 ditch [033] E facing section recleaned, oblique
233	Terminus, ditch [033] W facing section with [180]
234	Terminus, ditch [033] W facing section with [180], oblique
235	Terminus, ditch [033] W facing section with [180], close up
236	Terminus, ditch [033] W facing section with [180], close up
237	Terminus of [033] close up of K-tin in section
238	Terminus of [033] close up of K-tin in section
239	Slot 3 of ditch [033], W facing section
240	Slot 3 of ditch [033], W facing section
241	Slot 3 of ditch [033], W facing section, oblique
242	Slot 3 of ditch [033], W facing section, oblique
243	Slot 4 of ditch [033], NW facing section
244	Slot 4 of ditch [033], SE facing section
245	Working shot over ditch [033] winrow 4 (terminus)
246	Working shot over ditch [033] winrow 4 (terminus)
247	Pre-ex pits [190] and [192]
248	SE facing section [190] pit
249	Mid-ex [190] pit
250	Mid-ex [192] pit
251	Pre-ex of [196] pit
252	NE facing section [194] pit
253	E facing section [196] pit
254	Oblique mid-ex of [198] pit
255	SE facing section [198] pit
256	Post-ex general shot [194] pit
257	Pre-ex potentially modern curvilinear [201] winrow 8
258	Pre-ex potentially modern curvilinear [201] winrow 8
259	Mid-ex [201] with slots
260	[201] slot 1
261	[201] slot 2
262	[201] slot 3
263	[201] slot 3/4
264	SE facing section ditch [033] slot 6
265	General shot Ditch [033] slot 6
266	NW facing section ditch [033] slot 6
267	NW facing section of ditch [033] slot 7
268	SE facing section ditch [033] slot 7
269	General shot Ditch [033] slot 7
270	Pre-ex slot 8 ditch [033]
271	Pre-ex slot 8 ditch [033]
272	Pre-ex pit [213] near slot 8 [033]
273	NE facing section pit [213]
274	Mid-ex pit [213]
275	General pre-ex shots of ditch [033] curving northwards, full area strip
276	General pre-ex shots of ditch [033] curving northwards, full area strip
277	Working shot of full area strip
278	General pre-ex shots of ditch [033] curving northwards, with large pit
279	General pre-ex shots of ditch [033] curving northwards, with large pit
280	General pre-ex shots of ditch [033] curving northwards, with large pit
281	General pre-ex shots of ditch [033] curving northwards
282	General pre-ex shots of ditch [033] curving northwards

Photo No.	Description
283	General pre-ex shots of ditch [033] curving northwards
284	General pre-ex shots of ditch [033] curving northwards
285	Slot 10 through [033] ditch
286	Slot 10 through [033] ditch
287	NE facing section slot 10 ditch [033]
288	SW facing section slot 10 ditch [033]
289	SE facing section slot 8 ditch [033]
290	NW facing section slot 8 ditch [033]
291	General shot of slot 8 ditch [033]
292	NW facing section slot 8 ditch [033], oblique
293	W facing section slot 9 through [033], with assoc. Pit
294	N facing longitudinal section slot 9 through [033]
295	NE facing section slot 10 through [033] ditch
296	SW facing section slot 10 through [033] ditch
297	General view of pit cut into ditch [033] at slot 10
298	ENE facing section slot 11 ditch [033]
299	WSW facing section slot 11 ditch [033]
300	Post-ex general shot of slot 11 through [033]
301	W facing section, slot 9, ditch [033] and pit [221]
302	W facing section, slot 9, ditch [033] and pit [221]
303	E facing section, slot 9, ditch [033] and pit [221]
304	W facing section, slot 9, ditch [033] and pit [221]
305	W facing section, slot 9, ditch [033] and pit [221]
306	E facing section, slot 9, ditch [033]
307	NE facing section slot 12 ditch [033] (terminus)
308	General shot of slot 12, ditch [033] (terminus)
309	General shot of slot 12, ditch [033] (terminus)
310	Pre-ex pit [239] cuts (034)
311	SW facing section [239]
312	SW facing section slot 13, ditch [033]
313	General shot of slot 13, ditch [033]
314	NE facing section slot 13, ditch [033]
315	NE facing section slot 13, ditch [033], oblique
316	S facing section pit [261]
317	Pre-ex [263] pit
318	NW facing section pit [254]
319	Mid-ex [256] linear
320	Mid-ex [256] linear
321	SSE facing section [256]
322	SSW facing section [256], oblique
323	W facing section pit [263]
324	Pre-ex [265] pit
325	Pre-ex firepit [258]
326	N facing section [258] firepit
327	SE facing section pit [265]
328	Post-ex pit [258]
329	SE facing section at terminus of [267] linear
330	NNW facing section at terminus, linear [267]
331	NNW facing section at terminus, linear [267]
332	Post-ex linear [267]
333	Post-ex linear [267]
334	General views of site, post-ex. Close-out shots. Second strip area.
335	General views of site, landfill. Close-out shots. Second strip area.
336	General views of site, landfill. Close-out shots. Second strip area.
337	General views of site, post-ex. Close-out shots. First strip area.
338	General views of site, post-ex. Close-out shots. First strip area. Towards scheduled area.
339	General views of site, post-ex. Close-out shots. First strip area.

Photo No.	Description
340	General views of site, post-ex. Close-out shots. First strip area.
341	General views of site, post-ex. Close-out shots. First strip area.
342	General views of site, landfill. Close-out shots. Second strip area.
343	General views of site, landfill. Close-out shots. Second strip area.
344	General views of site, post-ex. Close-out shots. First strip area.
345	General views of site, post-ex. Close-out shots. First strip area.
346	General views of site, post-ex. Close-out shots. First strip area.
347	General views of site, post-ex. Close-out shots. First strip area.
348	General views of site, post-ex. Close-out shots. First strip area.

APPENDIX 3: Drawing Register

Drawing No.	Sheet No.
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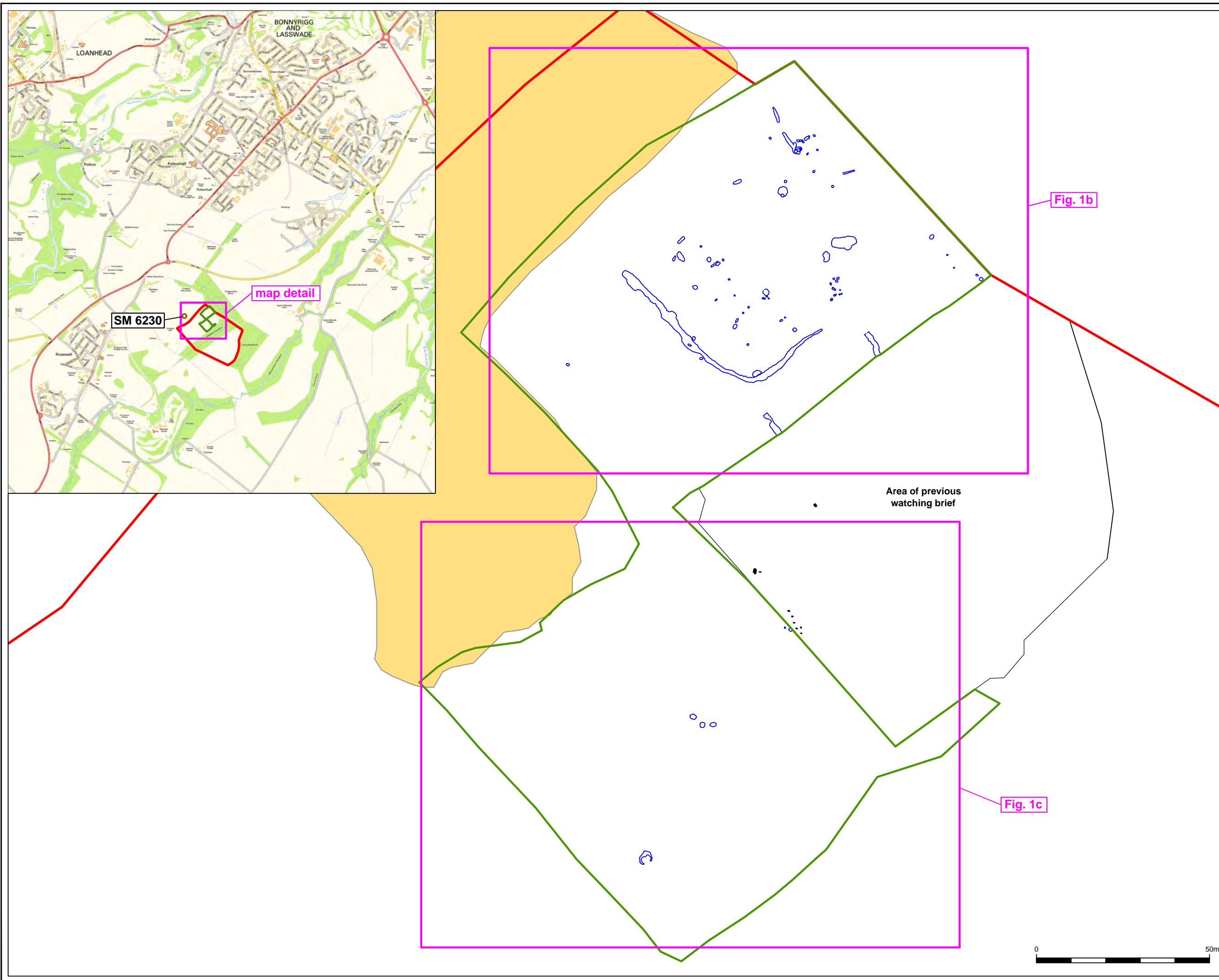
APPENDIX 4: Sample Register

Sample No.	Context	Sample type	Sample Volume
14	029	Bulk	30L
15	025	Bulk	25L
16	051	Bulk	32L
17	053	Bulk	12L
18	077	Bulk	8L
19	081	Bulk	8L
20	083	Bulk	8L
21	085	Bulk	8L
22	101	Bulk	8L
23	040	Bulk	8L
24	106	Bulk	36L
25	099	Bulk	16L
26	133	Bulk	10L
27	143	Bulk	10L
28	135	Bulk	10L
29	141	Bulk	10L
30	182	Bulk	20L
31	177	Bulk	0.5L
32	216	Bulk	20L
33	236	Bulk	20L
34	247	Bulk	20L
35	259	Bulk	8L
36	260	Bulk	8L

APPENDIX 5: Finds Quantification

Context	Sample	Slot	Find type	No.	Wt (g)	Notes	Spotdate
029	14		Lithic	1	1	Flint blade	
029	14		Pottery	<5	1		Prehistoric
034			Copper alloy	2	4	Fitting	Post Medieval
034		slot 4	Lithic	1	3	Chert	Natural
081	19		Slag	>100	6	Below level of identification	
106			Pottery	2	15		Prehistoric
106	24		Slag	6	2	Below level of identification	
133			Burnt Bone	2	2	Below level of identification	
133			Clay pipe	1	2		Post Medieval
133			Fired clay	2	589	Loom weights	Post-Roman?
133			Iron	1	57	Unknown fitting	Post Medieval
135	28		Slag	11	2	Below level of identification	
141	29		Burnt Bone	>100	4	Below level of identification	
141	29		Slag	39	1	Below level of identification	
156	28		Burnt Bone	7	1	Below level of identification	
181			Pottery	2	17		Early Bronze Age
247		slot 13	Lithic	1	1	Jasper	Natural

259	35		Burnt Bone	>100	7	Below level of identification	
259	35		Pottery	<5	1		Prehistoric
260	36		Burnt Bone	>100	4	Below level of identification	
U/S			Lithic	2	6	Flint slug knife, jasper secondary spall (natural)	Early Bronze Age
U/S			Pottery	9	9		Modern



Key:

- Site Boundary
- Limit of Excavation
- Archaeological features
- Area of landfill
- Archaeological features from previous work phase (see Report 3363)



CFA ARCHAEOLOGY LTD
 The Old Engine House
 Eskmills Park
 Musselburgh
 East Lothian, EH21 7PQ
 T: 0131 273 4380
 F: 0131 273 4381
 info@cfa-archaeology.co.uk
 www.cfa-archaeology.co.uk

Fig. No: **1a** Report No: **3471**

Title:
Location map and site plan showing the identified features

Project:
Upper Dalhousie Quarry, Bonnyrigg, Midlothian

Client:
Tillicoultry Quarries





Scale at A3:
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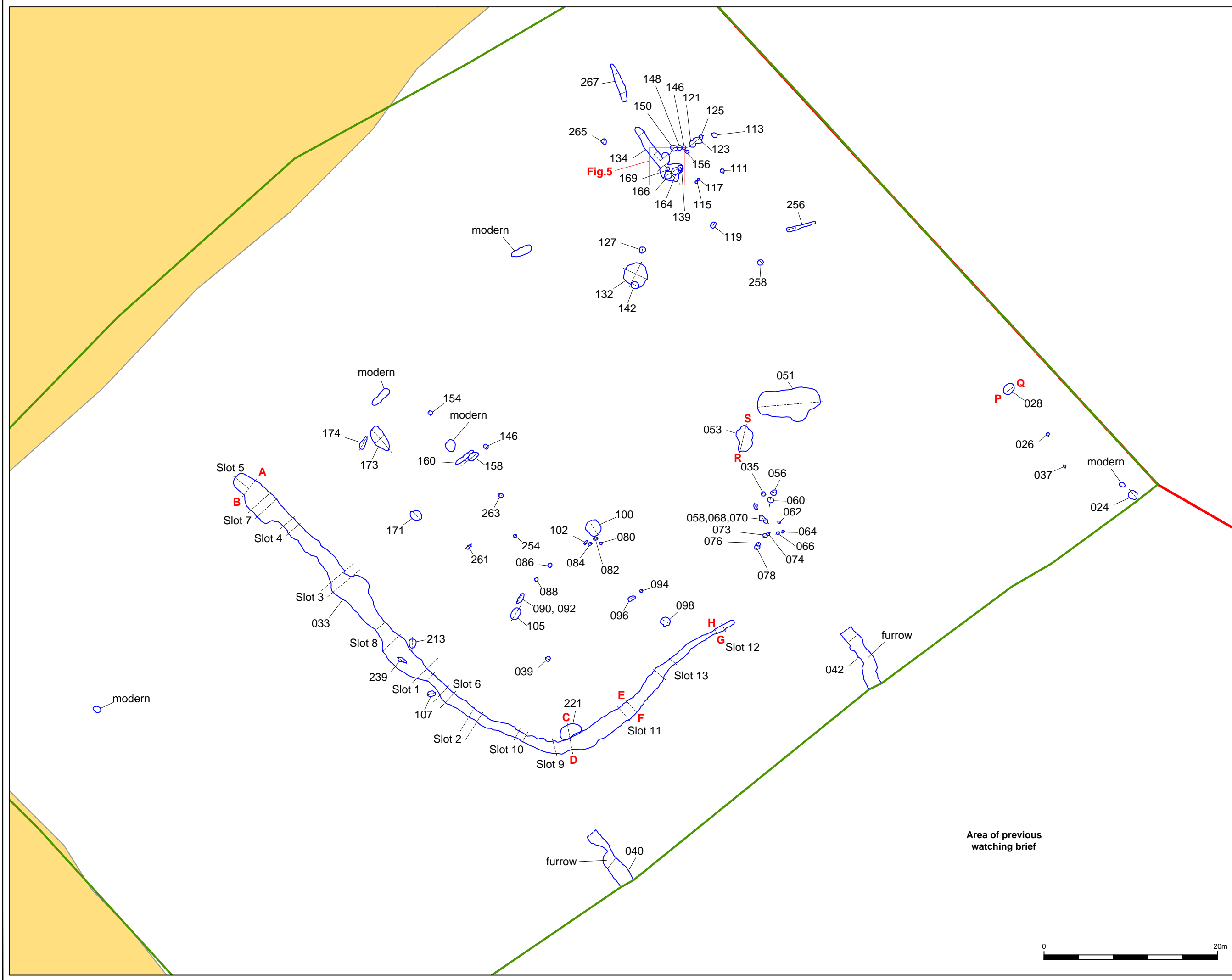
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- Key:**
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 -  Area of landfill




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The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
info@cfa-archaeology.co.uk
www.cfa-archaeology.co.uk

Fig. No: **1b** Report No: **3471**

Title:
Detail of the northern half of the site

Project:
Upper Dalhousie Quarry, Bonnyrigg, Midlothian

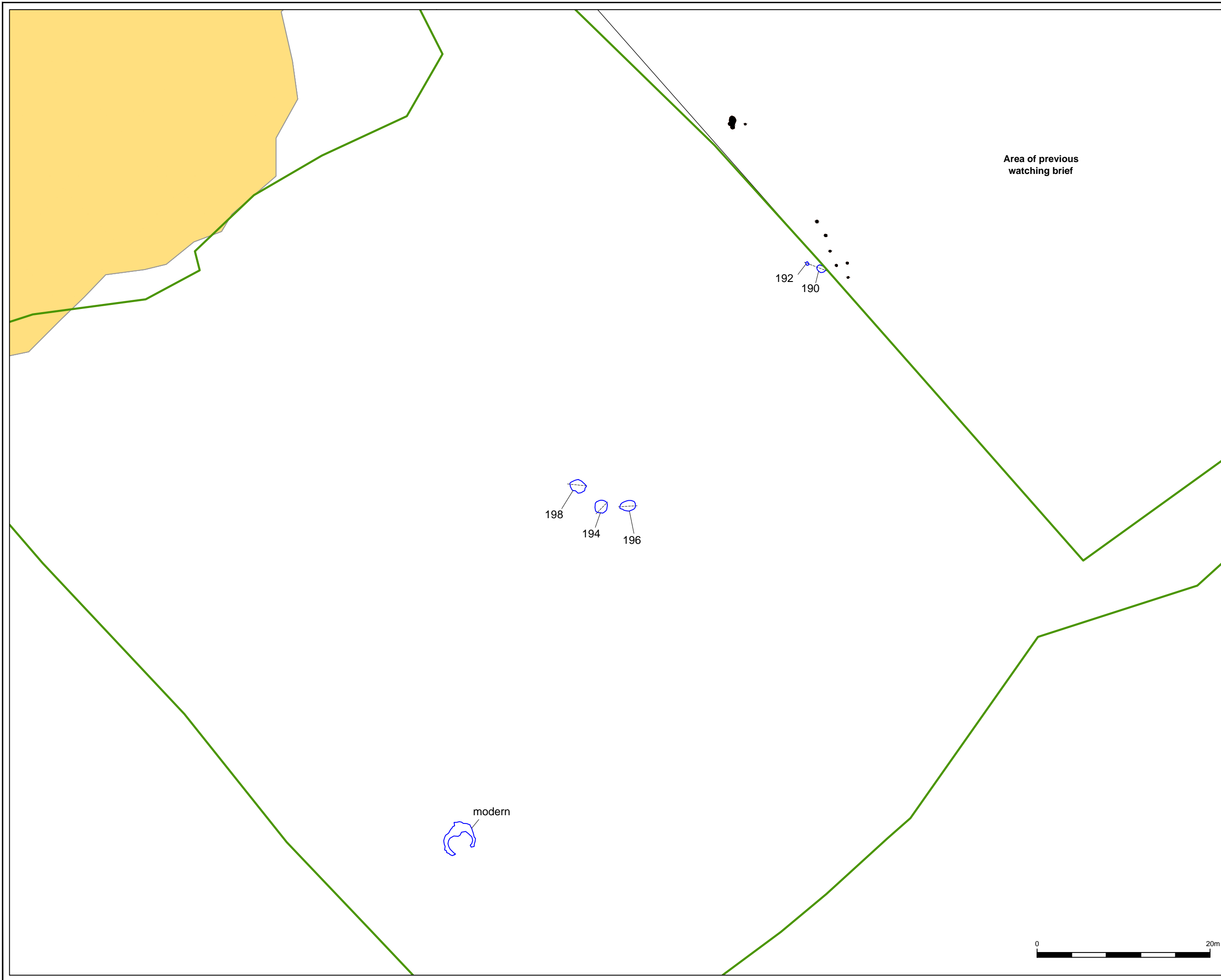
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The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
info@cfa-archaeology.co.uk
www.cfa-archaeology.co.uk

Fig. No: **1c** Report No: **3471**

Title:
Detail of southern area of the site

Project:
Upper Dalhousie Quarry, Bonnyrigg, Midlothian

Client:
Tillicoultry Quarries

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Fig 2a: General Pre-excavation shot of Ditch 033 (Western Terminus) looking east



Fig 2b: General Pre-excavation shot of Ditch 033 running down slope from the south-west

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CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
info@cfa-archaeology.co.uk
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Fig 2c: General oblique post-excitation shot of Slot 5 through Ditch 033



Fig 2d: General working shot of Ditch 033 from the north-east

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CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
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Fig 2e: West-facing section of Slot 3 through Ditch 033

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Musselburgh
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F: 0131 273 4381
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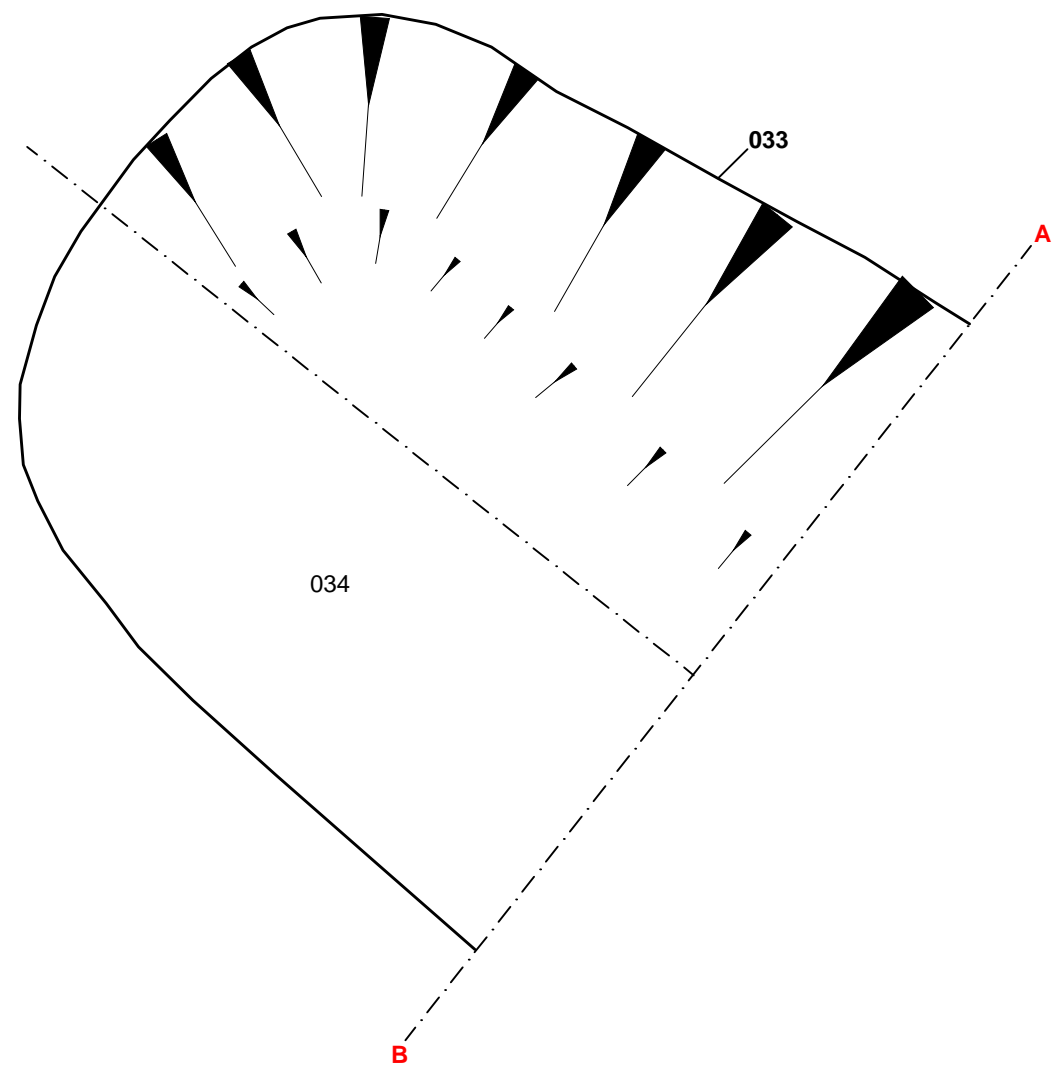


Fig. 3a Plan of Terminal End/Slot 5 in Ditch 033

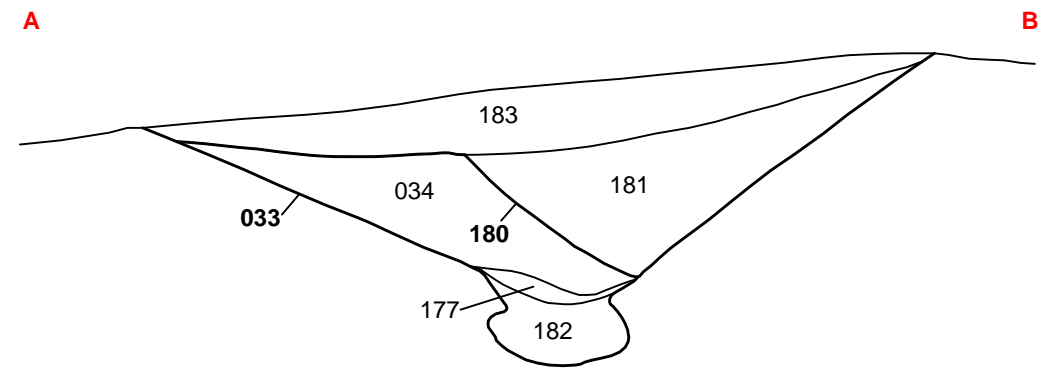


Fig. 3b Section through terminal slot, Slot 5 of Ditch 033

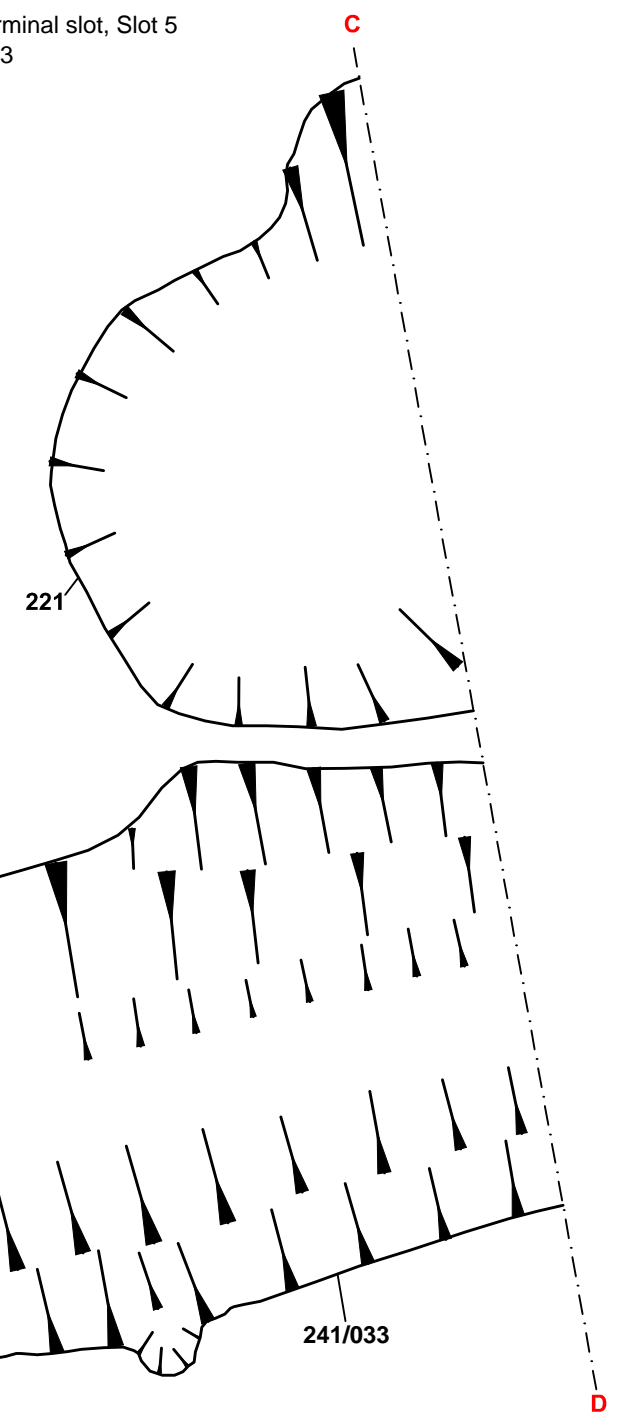


Fig. 3c Plan of Slot 9 through Ditch 033/241

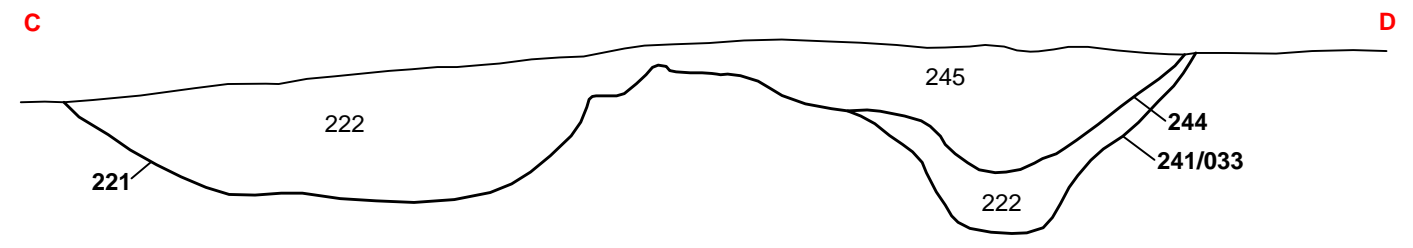


Fig. 3d West-facing section of Slot 9 through Ditch 033 and Pit 221



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 The Old Engine House
 Eskmills Park
 Musselburgh
 East Lothian, EH21 7PQ
 T: 0131 273 4380
 F: 0131 273 4381
 info@cfa-archaeology.co.uk
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Fig. No:	3a - d	Report No:	3471
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Title:
Plans of sections of slots through Ditch 033

Project:
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Client:
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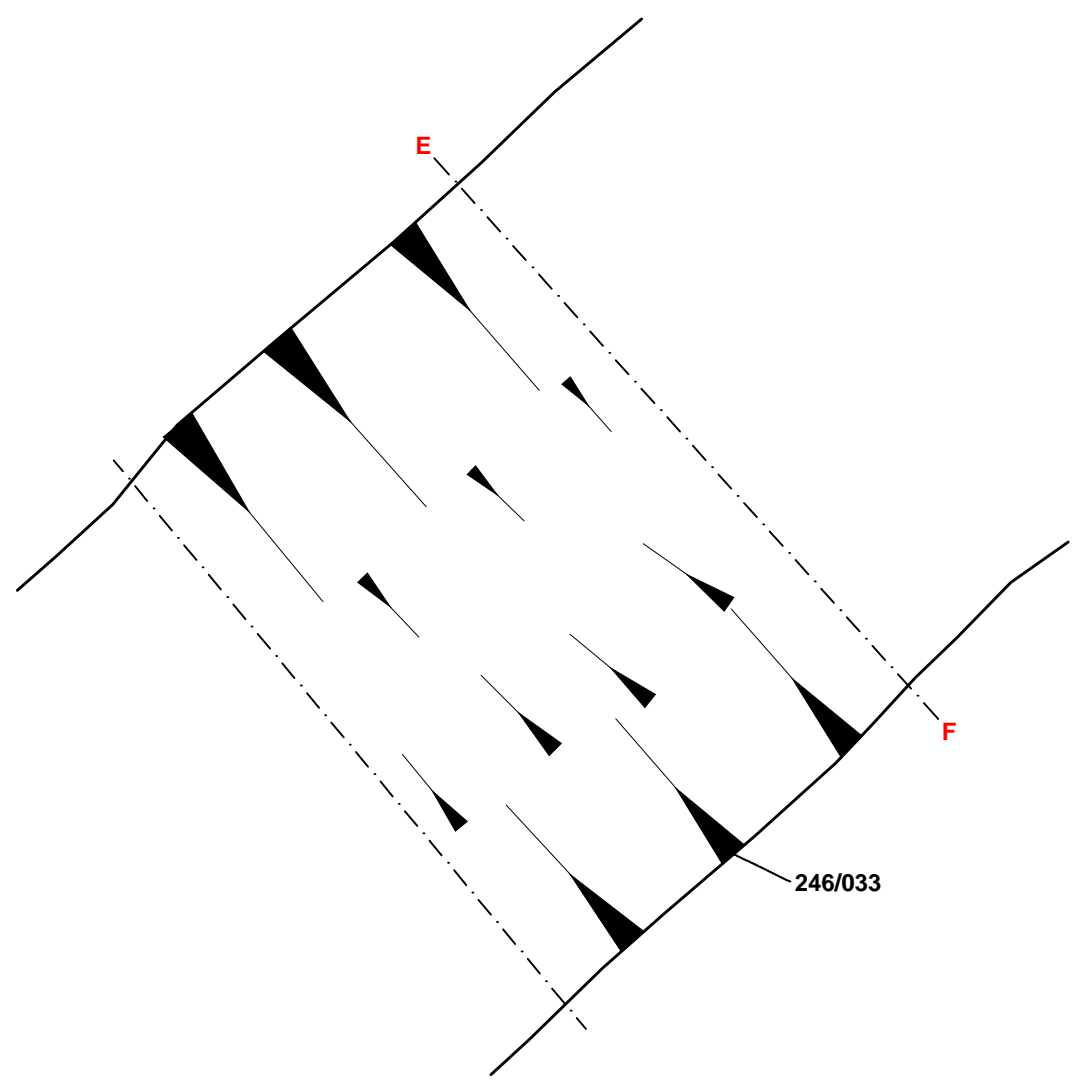


Fig. 3e Plan of Slot 13 through Ditch 033

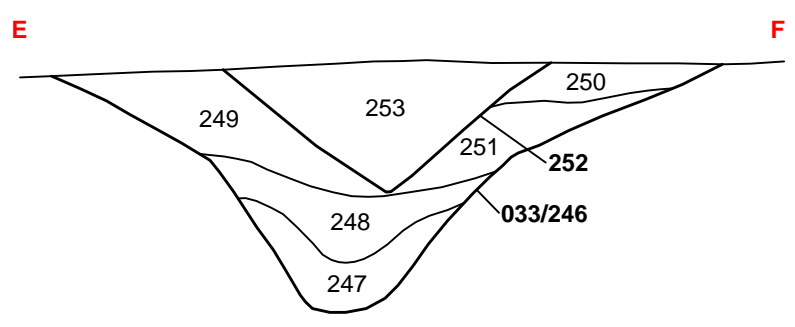


Fig. 3f South-west-facing section of Slot 13 through Ditch 033

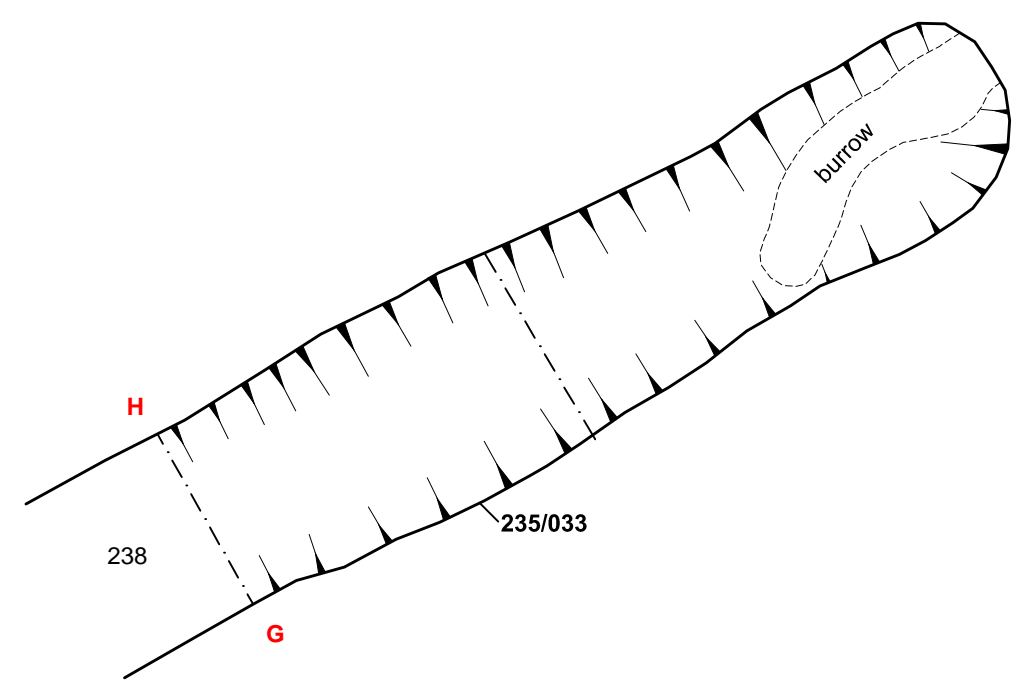


Fig. 3g Plan of Slot 12 through Ditch 033

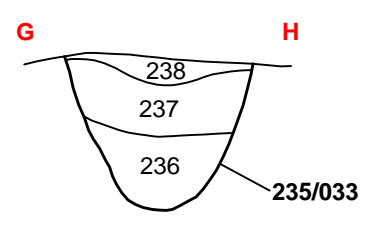


Fig. 3h North-east-facing section of Slot 12 through Ditch 033



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 The Old Engine House
 Eskmills Park
 Musselburgh
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 T: 0131 273 4380
 F: 0131 273 4381
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Fig. No:	3e - h	Report No:	3471
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Fig 4a: General pre-excitation shot of kiln 130 and flue 134 from the south-east



Fig 4b: General oblique shot of Slot 1 through kiln 130 and flue 134

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CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
info@cfa-archaeology.co.uk
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Fig 4c: General mid-excavation shot of slot 2 through kiln 130 and stones 138



Fig 4d: General post-excavation shot of flue 134

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The Old Engine House
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Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
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Fig 4e: Mid-excavation shots of pits 139, 164, 166 and 169 underlying stones 138

Project:
Upper Dalhousie Quarry, Bonnyrigg, Midlothian - Archaeological Works





CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
info@cfa-archaeology.co.uk
www.cfa-archaeology.co.uk

Client:
Tillicoultry Quarries

Drawn by: GC	Checked: SW	Date: 06/01/17
Report No: 3471		Fig. No: 4e



Key:
 Stone
 Charcoal lense

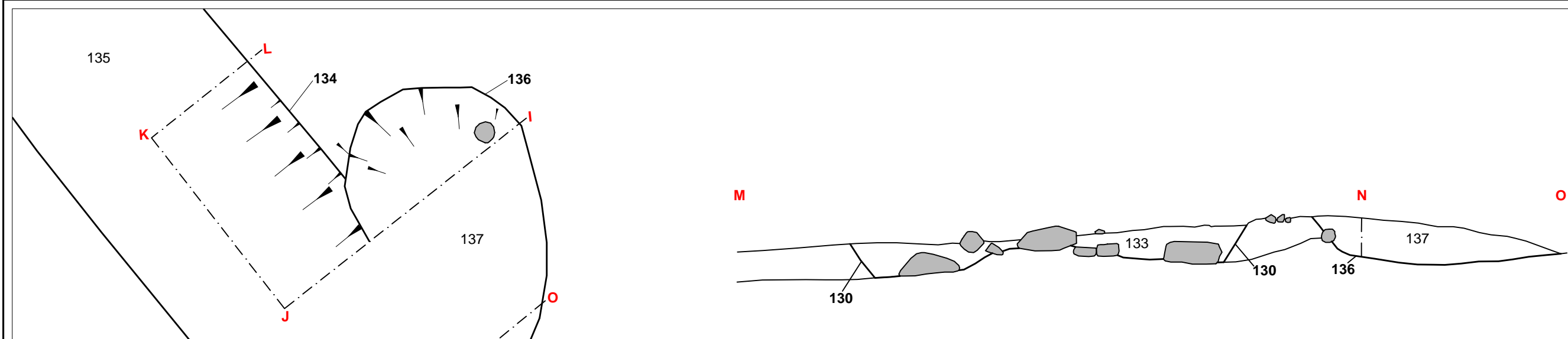


Fig. 5a Plan of Slots 1 and 2 in Kiln 130 and Flue 134

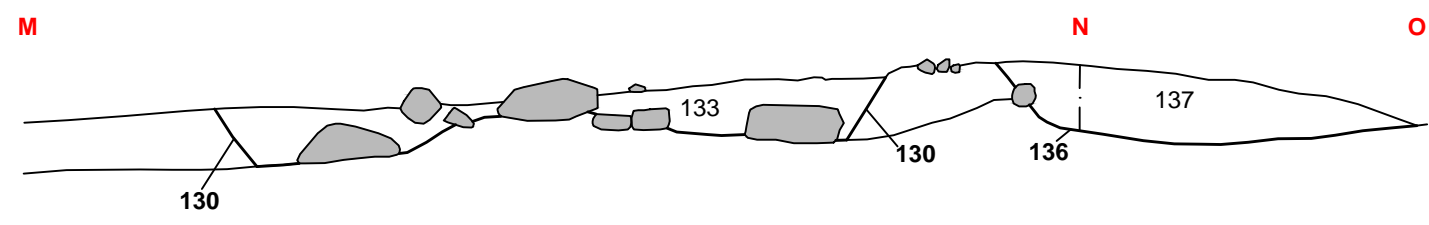


Fig. 5c Running section of Slot 2 through Kiln 130

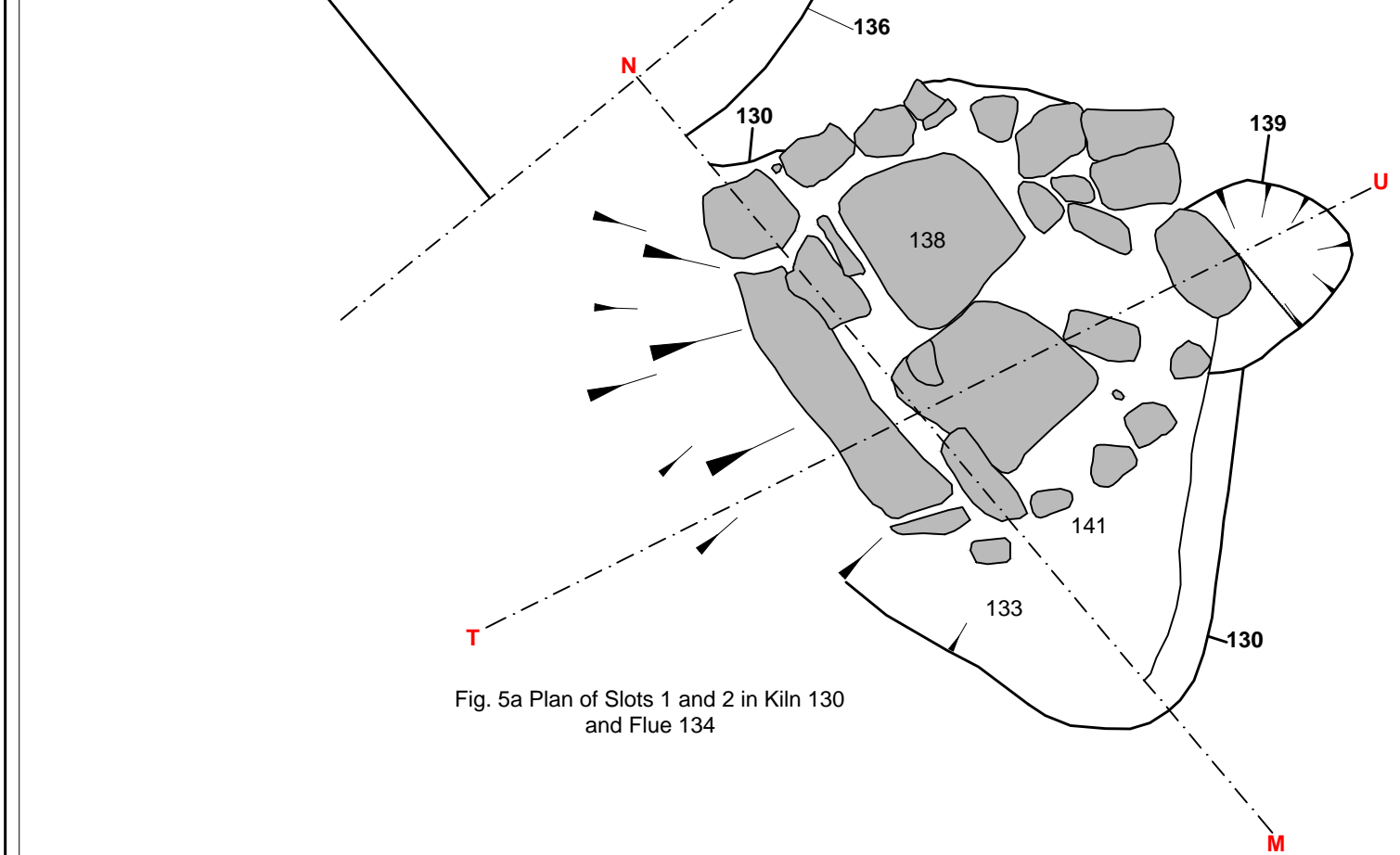


Fig. 5b Running section of Slot 1 Pit 136 and Flue 134

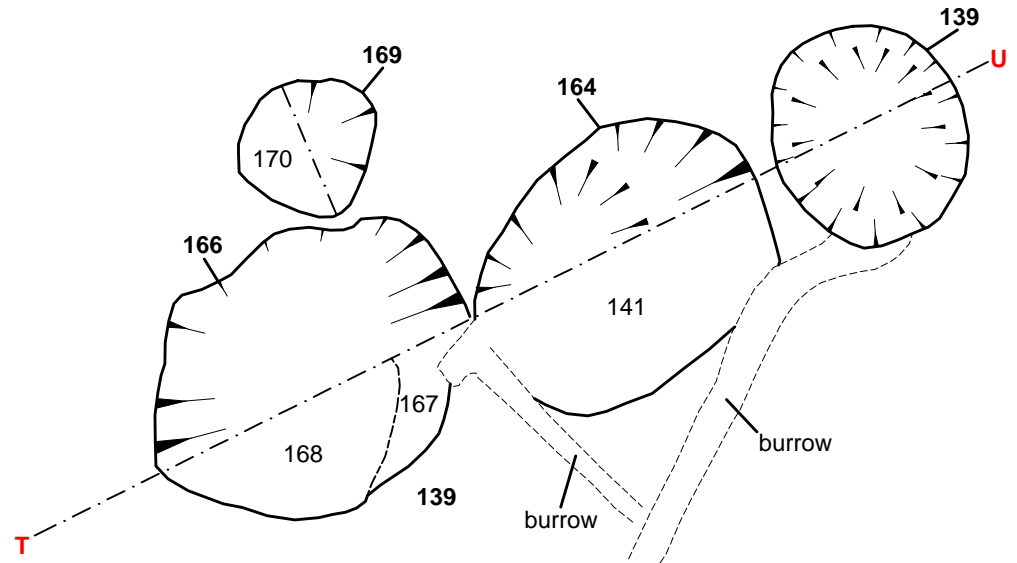


Fig. 5d Plan of pits underlying stone surface 138

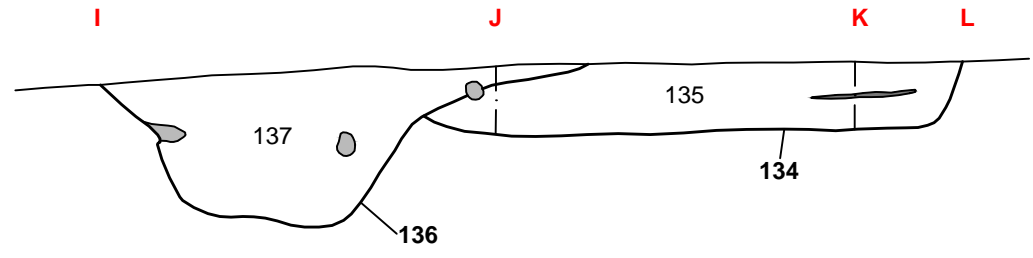


Fig. 5b Running section of Slot 1 Pit 136 and Flue 134

CFA ARCHAEOLOGY LTD
 The Old Engine House
 Eskmills Park
 Musselburgh
 East Lothian, EH21 7PQ
 T: 0131 273 4380
 F: 0131 273 4381
 info@cfa-archaeology.co.uk
 www.cfa-archaeology.co.uk

Fig. No: 5a - c Report No: 3471

Title:
Plan and sections of slots 1 and 2 through 130 and flue 134

Project:
Upper Dalhousie Quarry, Bonnyrigg, Midlothian

Client:
Tillicoultry Quarries

Scale at A3:
1:20

Drawn by:	Checked:	Date:
GC	SW	20/09/2016

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Fig 6a: General post-excavation shot of quadrant through Fire-pit 028



Fig 6b: South-east-facing section 052 of fire-pit, close up of insitu burning

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CFA ARCHAEOLOGY LTD
The Old Engine House
Eskmills Park
Musselburgh
East Lothian, EH21 7PQ
T: 0131 273 4380
F: 0131 273 4381
info@cfa-archaeology.co.uk
www.cfa-archaeology.co.uk

Client:
Tillicoultry Quarries

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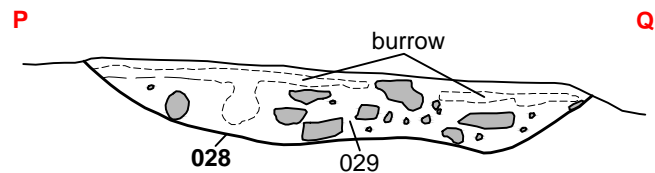


Fig. 7a South-east-facing section of Fire-pit 028

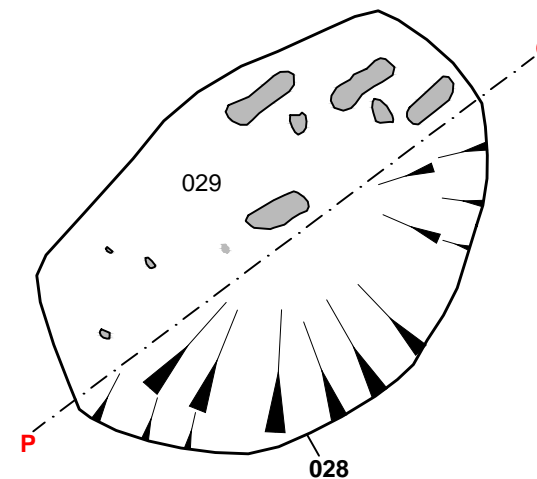


Fig. 7b Plan of Fire-pit 028

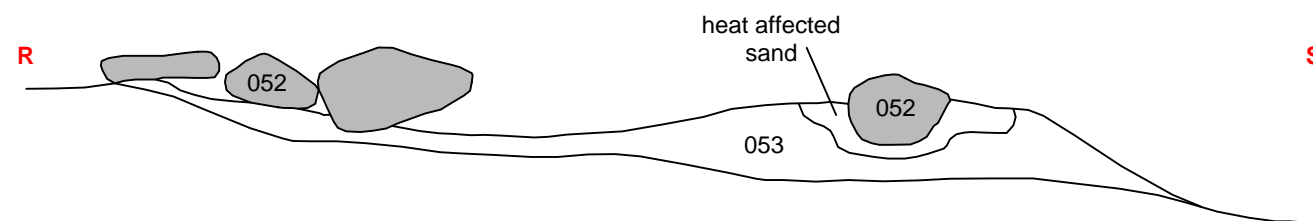


Fig. 7c South-east-facing section of Fire-pit 052

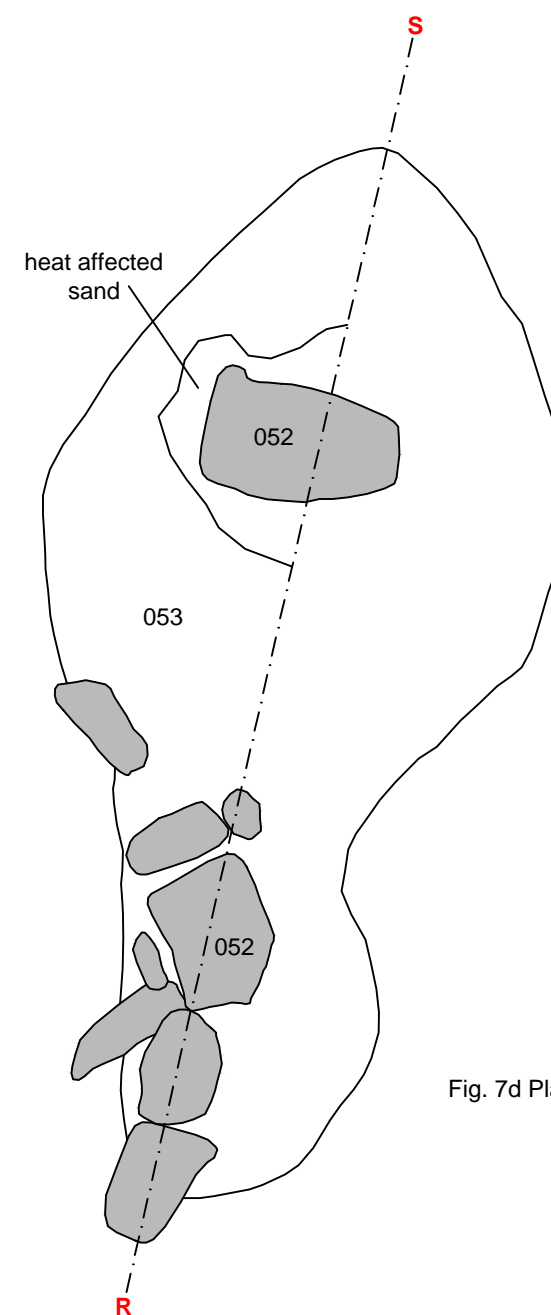


Fig. 7d Plan of Fire-pit 052



Key:



CFA ARCHAEOLOGY LTD
 The Old Engine House
 Eskmills Park
 Musselburgh
 East Lothian, EH21 7PQ
 T: 0131 273 4380
 F: 0131 273 4381
 info@cfa-archaeology.co.uk
 www.cfa-archaeology.co.uk

Fig. No: 7a - d Report No: 3471

Title:
 Plans and sections of fire-pits
 028 and 052

Project:
 Upper Dalhousie Quarry,
 Bonnyrigg, Midlothian

Client:
 Tillicoultry Quarries

Scale at A3:
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