Langdale/ Scafell Pike Neolithic Axe Factory

Management Project

Interim Report 1990/ 1991

National Trust

LANCASTER
UNIVERSITY
ARCHAEOLOGICAL
UNIT



<u>Langdale/Scafell Pike Neolithic Axe Factories</u> Interim results of Archaeological fieldwork 1990

Jamie Quartermaine and Patrick Tostevin

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Lancaster University Archaeological Unit Physics Building University of Lancaster LA1 4YW National Trust North-west regional office Rothay Holme Ambleside Cumbria

Introduction

The axe factories around the Langdale Pikes are on an unstable terrain and are vulnerable to even limited amounts of erosion; this coupled with an increasing use of the area by walkers and climbers has meant that many of the sites are under severe threat. In response to the deteriorating condition of the sites, the National Trust in conjunction with the Lancaster University Archaeological Unit set up a management programme in 1984, of which the first stage was a complete topographic survey of all the working sites.

This, the second phase of the programme, was planned in consultation with English Heritage, Cumbria County Council and the Lake District Special Planning Board and was jointly funded by English Heritage and the National Trust. It had two main aims: to set up a monitoring programme for all sites and to repair the sites on foot-paths which are under the most immediate threat.

The results of the 1990 fieldwork are summarised within three individual reports:

Management and Survey Programme - J.Quartermaine

Excavation Programme - P.Tostevin

Path repair Programme - R.Wilson

Management and Survey Programme Report J.Quartermaine

The condition of the sites is not deteriorating uniformly throughout the area; pockets of severe erosion are sometimes found adjacent to sites in a static condition. It is, therefore, necessary to monitor the condition of all sites in order to target the management resources towards working sites in greatest need. To this end a photographic data base was established to provide a record of the site condition in 1990. The sites were photographed from recorded locations in order to show the area around the working floor; in some cases the extent of the run-off was also photographed but because of the large number of sites (>570) it was not found to be expedient to do this at all sites. Apart from a small group of sites on Scafell Pike, all axe factory sites were photographed during this season.

On Top Buttress, an area particularly vulnerable to forces of erosion, additional methods of monitoring were attempted. Flakes were painted and set in a line across the mobile scree slopes of sites 98 and 94; they were set between two pegs which were placed at the edge of the vegetation cover. It should thus be possible to record any movement of the scree material, and any change in the extent of the vegetation cover. If this experiment proves effective it will be applied to other sites on Top Buttress and Harrison Stickle.

During the project 24 working sites were discovered which had not been recorded during the 1985 & 1984 survey seasons. In almost all cases these had been exposed as a result of erosion, highlighting the seriousness of the problem. They were mostly on foot-paths, but there were two large areas of waste material that have been recently exposed on Top Buttress; these are remote from any paths and there is no obvious explanation for the dramatic decrease in vegetation cover. All new sites have been surveyed and added to the 1:1000 survey base.

A small number of sites are now completely destroyed as a result of the erosion:

Site 115 in South Scree was a high concentration, stratified deposit of waste material opposite the cave (116). It had been protected from erosion by a large boulder immediately up-slope, but now the boulder has been dislodged and the worked material has been spread down the gully. There is no longer a significant concentration of worked material in this area.

Site 168 on Harrison path was a low concentration site within one of the path erosion gullies, but now the gully has expanded and there is no longer any worked material in situ.

Sites 191 & 192 were adjacent to the Stickle Tarn/Harrison Stickle path which has expanded enormously since the original 1984 survey. No worked material is now visible at the reported location, however this may be because the erosion has caused a deposition of natural overburden on top of the sites.

Foot Path Surveys

Sites exposed by foot-paths are deteriorating in condition at an alarming rate and are in need of the most immediate attention. It was decided to align new foot-paths approximately on the line of the existing paths, so as to prevent the exposure and destruction of

further sites presently obscured beneath turf. The main areas of debitage have been avoided but where it was impossible to avoid known sites, excavations were necessary to record any archaeological deposits. It was realised that the 1:1000 survey from the first phase was generally inadequate for the needs of the proposed excavation and repair work, so further 1:250 surveys were undertaken at all the path site groups. With the completion of the path repair programme, the surveys will be the only record of the extent of the flake scatters.

Surveys were undertaken at Harrison Path, Thorn Crag & Harrison Combe. They were accurately tied in to the national grid by traverse from the High Raise triangulation point, and permanent survey markers were placed at all the path groups. The surveys recorded the extent of the flake scatters, the excavation trenches, the extent of the path erosion, the lines of the proposed paths, crags, streams, bogs, and 1m contours.

Excavation Programme Report P.Tostevin

Four small scale rescue excavations were undertaken of sites on the line of the new path. These recorded the axe working deposits prior to their destruction by path repair work, defined the limits of the sites and the extent of the potential disturbance to the sites.

Trench 1 (site 174, sized 3m x 2m): Turf cover survived only on the north side of the trench beneath which there was a thin layer of peat almost devoid of worked material. Below the peat there appeared to be two distinct layers containing large quantities of worked material. The upper of these was also humic while the underlying one was more clay-like and continued underneath the loose scree and gravel that existed where the turf had been eroded. At the west end of the trench there were dense patches of extremely small flakes possibly indicative of a fine working floor, whereas towards the east end the scatter of worked material was less dense and there were fewer small flakes.

Trench 4 (site 174, sized 2m x 1m): Because the full extent of the site was still unknown, another trench (4) was excavated to the west of the first. It had a similar stratigraphic sequence and again there was a wealth of worked material across the whole trench, more dense in some areas than others. A large, relatively flat stone (at least 0.90m by 0.50m) protruded from the east and south facing sections at the west end of the trench. There were a few dense scatters of small worked flakes around and partly covering the stone which may indicate that it was used either as an anvil stone or a seat.

Despite the excavation of these two trenches, neither a southern or western limit to site 174 has been discovered; it does however confirm original suspicions that the site was considerably larger than was apparent from the surface scatter.

Trench 2 (site 226, sized 5m x 1.5m); The working floor was severely damaged by path erosion; only a small amount of in situ material remained underneath the turf at the edge of the site. Some of the unstratified material found in the surface scree might have been run-off from another site. Almost all of the surviving elements of the working floor were within the confines of the trench, however the small remaining part outside the trench will probably be completely destroyed by path consolidation work.

Trench 3 (171, sized 1.50m x 5m); The trench was located in order to investigate a small flake deposit in an exposed section at NY 2831807123. Underneath the turf and loose scree there were peaty layers containing some worked material with a marked concentration in the middle of the trench extending into the south-facing section. It can reasonably be assumed that the limits of this site had been defined by this excavation.

These excavations suggest that the proposed course of the new path will cause the destruction of parts of the above sites, especially site 174 where the working floor was found to extend far beyond the limits of the surface scatter. However, the consolidation of the rest of the path will conserve many more sites and will minimise the destruction.

Foot path Repair Programme Report R.Wilson

Following survey work carried out by the Archaeological Unit at Lancaster University, work began on Harrison Stickle Path with the aim of establishing a line for the path and consolidating and protecting the known sites.

Site 206 was protected with large stones and a turf covering. In order to reduce the width of the bank and to control further erosion, buttressing, infilled with turf, was used above site 206. This had the added bonus of reducing peoples 'interest' around the protected site.

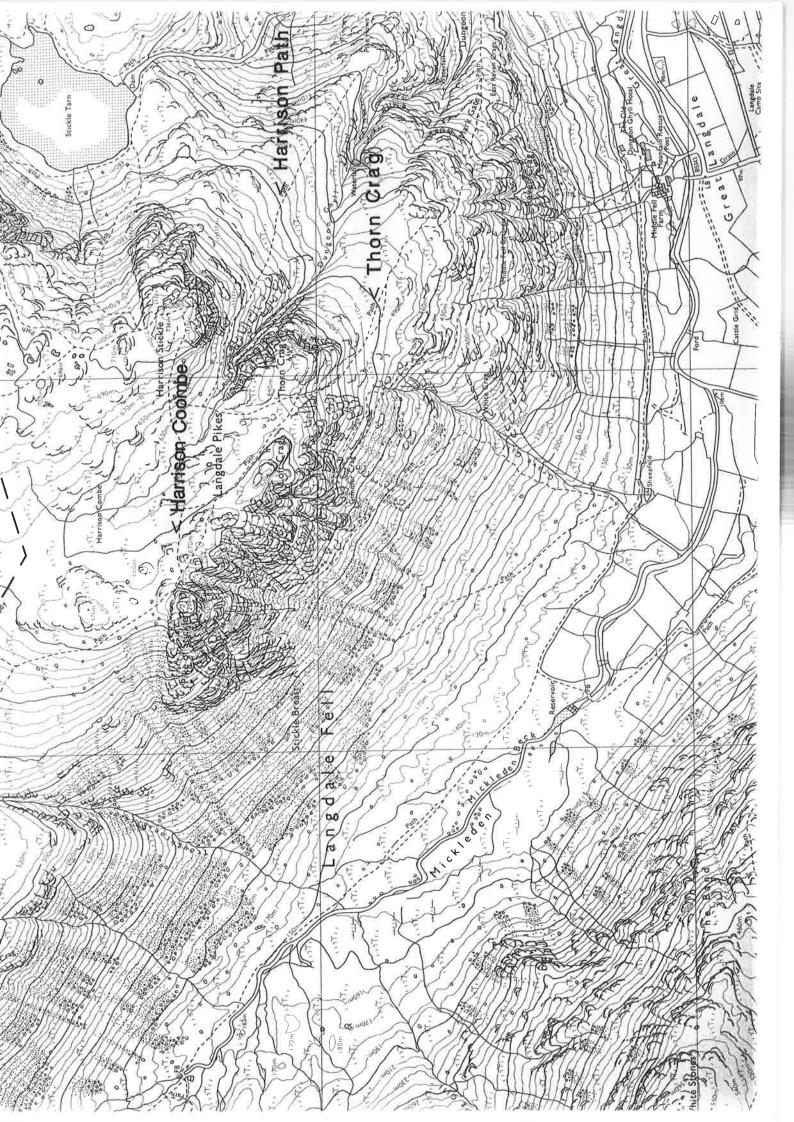
Sites 227, 205, and 228 were then covered with graded stones (c.4" diam.). The area was then covered with turf.

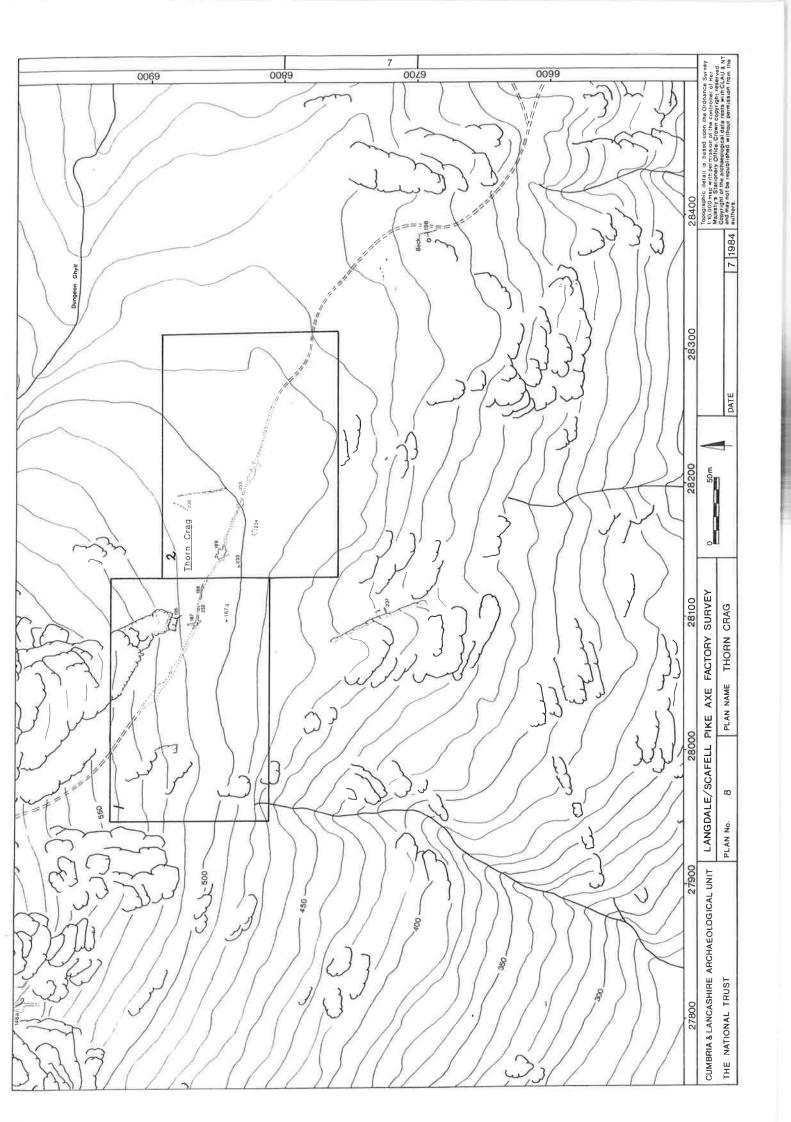
This technique proved successful and was therefore used to protect sites 174 and T.4.

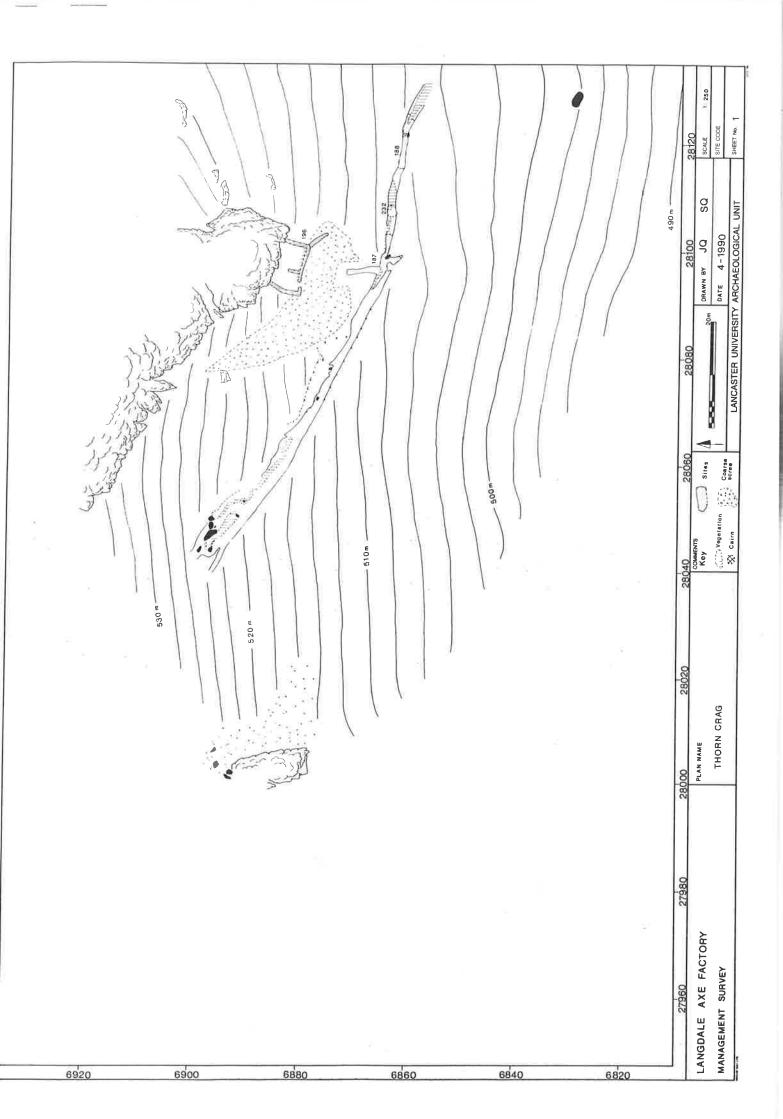
In consultation with archaeologists from L.U.A.U. a large pitched drain was built across the top of the turfed area to prevent further water erosion.

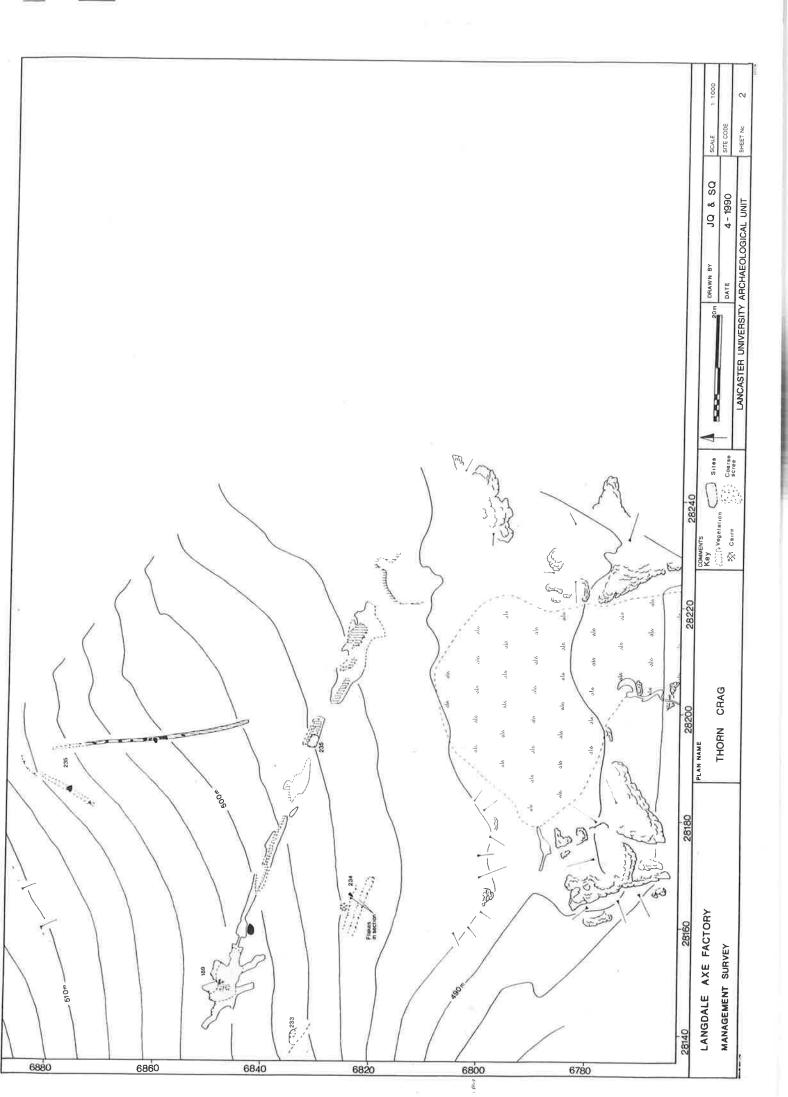
The deep gullies above this, containing sites 169, 171, 172 and 173 were filled with graded stones. This work was finished too late for this years growing season, and it was decided to leave this area as it is suitably protected from further damage or interference. It is proposed to return to this area in Spring 1991 and to cover it in soil and turf.

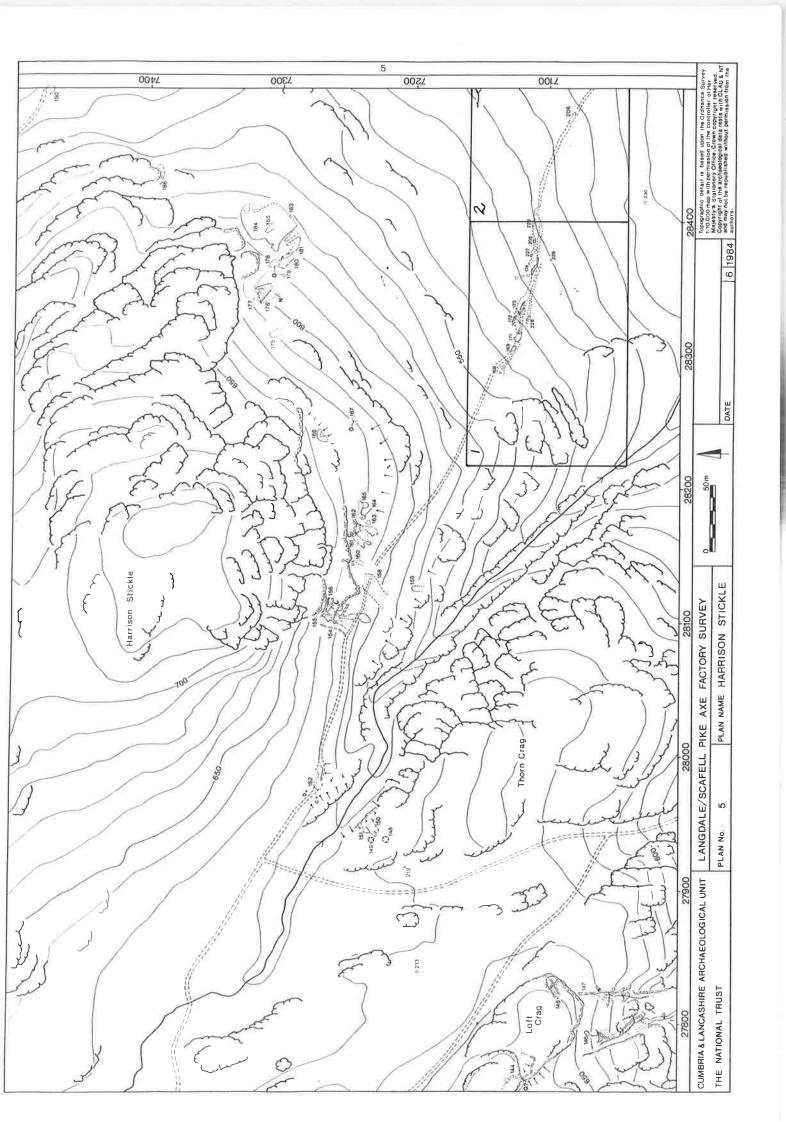
The path above Trench 3 has been pitched up the incline and a waterbreak incorporated to try to alleviate the damage caused by water.











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