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THE BRONZE SWORDS OF IRELAND

IAN COLQUHOUN

A thesis presented posthumously for the degree of
Doctor of Philosophy
Department of Archaeology
University of Durham
England
June 2015

THE BRONZE SWORDS OF IRELAND

IAN COLQUHOUN

ABSTRACT

The leaf shaped bronze sword is one of the most distinctive and evocative weapons of prehistory. The type appears throughout Western Europe in the final centuries of the second millennium BC only to disappear as an artefact type with the widespread introduction of iron weapons hundreds of years later. The widespread distribution of the bronze sword points to the increasingly martial nature of Late Bronze Age society, a feature echoed in Ireland by the appearance of defensive landscape features.

The expansion and development of Irish archaeology in the last fifteen years has rather left metalwork and swords, in particular, behind, as the main focus has moved away from artefacts towards settlement. It is only in recent years that interest has revived in the Bronze Age and bronze metalwork. Over six hundred swords have been recovered from Ireland, the vast majority being nineteenth century finds. Most belong to the equivalent of the Ewart Park type in Britain – but there are significant numbers of early flange hilted weapons and of the late Gundlingen type.

This thesis represents the first major study of the development and context of the Irish swords since George Eogan's work (Eogan 1964). It examines, in addition to those weapons listed in Eogan's catalogue, all of the more recent discoveries, and takes as the central theme the biography or life cycle of a sword, from manufacture through to use and deposition, with the emphasis on the latter. The thesis represents a companion to the comprehensive analysis and catalogue of Bronze Age swords in Britain, co-authored by myself and Colin Burgess (Colquhoun and Burgess 1988).

Following the death of Ian Colquhoun on 7th June 2013, the thesis was compiled, formatted and submitted posthumously by his supervisors – Dr Benjamin Roberts and Dr Tom Moore.

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The Bronze Swords of Ireland Ian Colquboun

Posthumous PhD Thesis Submission Statement

Dr Benjamin Roberts Dr Tom Moore

Introduction

The thesis by Ian Colquhoun entitled 'The Bronze Age Swords of Ireland' is submitted posthumously here by his supervisors Dr. Benjamin Roberts and Dr. Tom Moore. Ian had started his PhD as a part-time student in October 2007. Due to treatment for the sudden onset of cancer in September 2010, he was granted three periods of concessions from his PhD: October 1st 2010- March 1st 2011; March 2nd 2011 – 30th September 2011; and March 22nd - August 2012. His revised submission date would have been October 2016. Despite his illness, Ian continued to work hard on his thesis and data collection, only ceasing work working on it shortly before his passing on June 7th 2013. Following the careful consultation of the Durham University guidelines regarding posthumous PhD submissions and awards and a review of the substantial progress on his PhD made by Ian Colquhoun, the decision was taken by the supervisors and his wife, Carol Colquhoun, to prepare the PhD for posthumous submission.

Preparations for Submission

In line with the Durham University guidelines on the posthumous submission of PhD theses, no additional text, tables, figures or references were added.

The first task undertaken for submission was to compile and organise the text and bibliography. The Title and Table of Contents were taken from the existing PhD thesis text and – following the completion of the PhD thesis submission - page numbers were added. The thesis structure, chapter titles and planned word counts for each chapter had already been outlined in a Thesis progress report dated to 29th February 2012 and the Report for Postgraduate review dated 3rd May 2013. The available text was organised according to this report with the proposed word counts

enabling an assessment on thesis progress to be made (see below). The text for the Abstract, Chapters 1 and 3 was taken from a PhD Thesis outline by Ian Colquhoun dated 8th February 2009. Chapters 4, 5 and 6 had been either completed, or in the case of Chapter 6, was very close to completion. No additional text was added. The bibliography was originally in three parts following Chapters 4, 5 and 6. For the thesis submission, these were amalgamated into a single bibliography. No additional references were added. The font and text size were standardised and page numbers added.

The second task undertaken to prepare for submission was to digitise the substantial catalogue of Bronze Age swords from Ireland that now forms Appendices A-C. The data for the PhD thesis comprises the master spreadsheet (Appendix A), the catalogue of drawn swords (Appendix B) and the catalogue of sword moulds (Appendix C). The first part of the catalogue (Appendix A) is an excel spreadsheet which records the following information: provenance (where known), county (where known), Museum number, collection, Eogan Catalogue number (following Eogan (1965), the last major work on Bronze Age swords in Ireland), Eogan Class, Type (Ian Colquhoun's scheme), status, length, maximum blade width, shoulder width, weight, patina, hilt arrangement, condition, find circumstances, associations, bibliography and research notes. Nothing was added to Appendix A.

The second part of the catalogue (Appendix B) comprises highly detailed 1:1 scale drawings of each sword recorded during his extensive visits to museum collections in Ireland and Britain. These were to be inked later for publication. Digital photos were also taken of each sword though these were not intended for final thesis submission. In total, there were 612 detailed pencil drawings of 584 swords and sword fragments had been prepared by Ian Colquhoun. In addition there are several photocopied drawings (nos. 151, 616, 617, 618) of four swords which were used in the catalogue. The 1:1 scale of the pencil drawings meant that the vast majority could not be scanned in their entirety but could only be scanned in halves, or occasionally thirds. These scans then had to be digitally re-united to form the complete image. This painstaking yet invaluable work was undertaken during November-December 2013 by Dr. Alejandra Gutiérrez, at the behest of the Head of Department, Professor Christopher Gerrard. Each image was subsequently re-sized, numbered and assembled into a

coherent catalogue by Dr. Benjamin Roberts. The numbering system employed to order the sword images is the same numbering system employed by Ian Colquhoun in the master spreadsheet comprising all the details that he had compiled on each sword that forms Appendix A. Each sword drawing had been labelled with an individual museum accession number which could also be found on the master spreadsheet enabling the numbering of sword images to be cross-checked. No additional drawings/images were subsequently added to Appendix B. The third part of the catalogue (Appendix C) comprised the sword moulds. This was added unmodified.

The third task undertaken for submission was to select the supporting material. There are two highly relevant publications by Ian Colquhoun that are submitted together with the PhD thesis. The first is 'The Swords of Britain' – a comprehensive investigation and catalogue of Bronze Age swords in Britain by Ian Colquhoun and Colin Burgess (Colquhoun and Burgess 1988). The second is a book chapter deriving from the PhD thesis by Ian Colquhoun taken from conference proceedings entitled 'Bronze Age Warfare: Manufacture and Use of Weaponry' (Colquhoun 2011 – see Appendix D).

Thesis Progress

As the supervisors of Ian Colquhoun, we propose that the main objectives set out below (and in Chapter 1) of this PhD thesis have been achieved by the submitted text in Chapters 4, 5, 7, 8 and Appendices A-C The supporting publications (Colquhoun and Burgess 1988 – copies available to examiners; Colquhoun 2011 – see Appendix D) demonstrate that many of the gaps in the submitted text had already been published elsewhere by Ian Colquhoun.

- To establish a biography of the Irish sword (see Chapters 4, 5, 6 and 7)
- 2 To evaluate how swords started their life cycle (see Chapter 4)
- To examine the different uses of the sword (see Chapters 5 and 7)

4 To assess the death of the sword, paying particular attention to deposition and location (see Chapter 6)

Data Gathering

At the core of the PhD thesis is the detailed first-hand examination, recording and collection of data relating to each on 719 Bronze Age swords known to have been found in Ireland (see Appendices A-C). This is substantially higher than the Bronze Age sword corpus from Ireland assembled by George Eogan of 623 swords (Eogan 1965). The evidence compiled in Appendices A-C demonstrates that 584 swords have been personally examined, photographed, drawn and fully recorded by Ian Colquhoun during an extensive programme of museum visits throughout Ireland, Britain, Berlin and Copenhagen from May 2009. Financial assistance for these visits was received from the Rosemary Cramp Fund and the Prehistoric Society John Coles Award. This represents over 85% of the total corpus and, given the occasional failure by museum curators to locate listed swords in museum collections (e.g. four registered swords were unable to be located in Cork Museum alone), this percentage should be slightly higher. In addition, he noted in his Report for Postgraduate Review dated 3rd Mav 2013, that he had access to good drawings or photographs of an additional 50 swords. The swords which had yet to be recorded are primarily in the collections of museums in southern England (Ashmolean, Pitt Rivers, Farnham, Bristol, Devizes, Salisbury, Plymouth and Newcastle), several in Ireland which were not located/available on earlier visits (e.g. Ulster Museum and National Museum of Ireland), and several in private collections.

Writing

The writing for the PhD thesis had been done one chapter at a time with the priority given to the core chapters analysing the data. The total number of words written by Ian Colquhoun encompassing the abstract and chapters but excluding the table of contents and bibliography is 26555. However, when combined with relevant text published elsewhere by Ian relating to Chapter 2 (c. 4500 words) and Chapter 7 (c. 25-30,000 words whose content would make a major contribution to the missing c. 7000 words), the written submission is c. 36-37000 words. The bibliography is

incomplete, yet at c. 130 references still fairly extensive, and encompassing virtually all the references directly relating to Bronze Age swords in Ireland. The PhD thesis 'The Bronze Swords of Ireland' was intended to be complimentary to the comprehensive monograph 'The Swords of Britain' of which Ian Colquhoun was the lead author earlier in his career (Colquhoun and Burgess 1988).

Chapter 1 (Introduction) comprises sub-sections of 'Aims and Objectives' and 'Reasons for the Study'. The former had already been written in summary of c. 300 words by Ian Colquboun in the Thesis outline document and is reproduced in the submission.

Chapter 2 (History of Research) comprises the text of c. 250 words within the Thesis summary by Ian Colquhoun which is reproduced in this submission. This needs to be taken together with and the more uptodate and extensive section on 'Previous Research and Typology' of c. 1000 words within a chapter entitled 'Irish Swords: Use and Abuse' published by Ian Colquhoun in 2011 (Colquhoun 2011 – see Appendix D). Finally, within Coluqhoun and Burgess (1988) is an extensively referenced and concisely written chapter of over 3500 words entitled 'History of Research' which actually covers past research on Bronze Age swords in both Britain and Ireland (Colquhoun and Burgess 1988, 5-10). It can be therefore demonstrated that the vast majority of Chapter 2 had already been written and published elsewhere.

Chapter 3 (Methodology) had also been outlined in the thesis summary document and totals c. 500 words.

Chapters 4, 5 and 6 encompassing the major stages in the biography of a sword (Birth, Life and Death) have been either completed, or in the case of Chapter 6, was very close to completion. The text from these three chapters totals over 25,000 words and is highly polished and closely referenced. Extensive use is made of examples drawn from the data in Appendices A-C. However, there is only limited use made of figures and tables and there are none of the intended maps as the data gathering was not complete. Discussions between Ian Colquhoun and Dr Tom Moore led to the agreement that a proposed additional chapter (Warfare in Late Bronze Age Ireland) would be incorporated into Chapter 5.

Chapter 7 analysing the typology of the Bronze Age swords in Ireland is only partially complete with over 3000 words of the 10,000 planned words. However, the vast majority of the typological scheme to be used in the thesis is clearly evident. Whilst the Type column of the master spreadsheet (Appendix A) has only been filled in for Gundlingen swords, the vast majority of drawings of the recorded swords had been placed into envelopes labelled with a Type in what Ian had indicated in supervisions was an ongoing classification process (and is therefore not reproduced for this submission). As the Bronze Age sword types and typological schemes in Ireland are closely paralleled in Britain, the majority of the relevant research had already been conducted and published in Colquhoun and Burgess (1988). The internal structure for Chapter 8 with sub-sections on Type, Origins, Dating and Distribution mirrors the earlier publication on Swords of Britain (Colquhoun and Burgess 1988, 11-121). These sections on the Type, Origins, Dating and Distribution alone within this monograph, excluding the catalogue, comprise c. 25-30,000 words. Ian had also conducted a recent concise review of the typology which highlighted minor revisions to the typological scheme published by Eogan (1965) as well as Colquhoun and Burgess (1988) (Colquhoun 2011, 107-110 – see Appendix D). Hence, whilst certain sword types have already been relatively well covered and others either partially covered or not yet present in the submitted text, it can be demonstrated that much of Chapter 8 had already been published elsewhere by Ian Colquhoun.

Chapter 8 (Discussion) and Chapter 9 (Conclusions) had yet to be written.

Conference Papers, Publications and Tutoring

Ian Colquhoun presented papers relating to his PhD at: the Bronze Age Studies Group (Bavaria, May 2009); Warfare in Bronze Age Europe conference (Vienna, November 2009); Theoretical Archaeology Group (Durham, December 2009). He also presented a conference paper analysing the depositional contexts of Bronze Age swords in Northumberland to the Bronze Age Studies Group (Wessex, May 2010). He published one paper relating to his PhD (Colquhoun 2011) in addition to a publication on prehistoric flint at Sandy Bay, Northumberland (Colquhoun 2010) and completing and submitting one paper on the Northumberland swords which is currently in press

and will be published in *Northern Archaeology* –the journal of the Northumberland Archaeology Group and of which he was the editor. Earlier in his archaeological career, Ian was the lead author on the definitive monograph on Bronze Age swords (Colquhoun and Burgess 1988) and several key articles on Late Bronze Age metalwork in Britain (see below).

Full Bibliography of Ian Colquhoun

Colquhoun, I. (1978). Bronze Age Metalwork in Somerset: A Catalogue of Stray Finds. *Proceedings of the Somersetshire Archaeological and Natural History Society* **122**: 83 -101.

Colquhoun, I. (1979). The Late Bronze Age Hoard from Blackmoor, Hampshire. In Bronze Age Hoards: some finds old and new (British Archaeological Reports 67). Burgess, C. & Coombs, D. Oxford: Archaeopress. 99-116.

Colquhoun, I. (1981). A Late Bronze Age Tanged Razor from Carlisle Museum and Class IV Razors from Britain. *Northern Archaeology* **2**: 11–14.

Colquhoun, I. (2010). Flints from Sandy Bay, Northumberland. *Northern Archaeology* **21**: 31-38.

Colquhoun, I. (2011). Irish Swords: Use and Abuse. In <u>Bronze Age Warfare:</u> <u>Manufacture and Use of Weaponry</u> (British Archaeological Reports International Series 2255). Uckelmann, M. & Mödlinger, M. Oxford: Archaeopress. 107-116.

Colquhoun, I. and C. B. Burgess (1988). <u>The Swords of Britain.</u> <u>Prähistorische</u> Bronzefunde IV, 5. Munich, C.H. Beck.

Colquhoun, I. (in press, 2015) Swords and the landscape in Late Bronze Age Northumberland. *Northern Archaeology*

Ian was also a first year tutor for Discovering World Prehistory at Durham University and a lecturer in Adult Education at the University of Sunderland Centre for Lifelong Learning.

PhD Criteria

The current PhD criteria are:

"Candidates are required to demonstrate the ability to conduct original investigations, to test or explore ideas / hypotheses (whether their own or those of others), and to understand the relationship of the theme of their investigations to a wider field of knowledge. The thesis should include an original and significant contribution to knowledge, for example through the discovery of new knowledge, the connection of previously unrelated facts, the development of new theory, or a new analysis of older views. It should also include substantial matter worthy of publication, though it need not be submitted in a form suitable for publication"

As the supervisors of Ian Colquhoun, we are confident that his thesis not only meets the criteria above but is also over 75% complete when the data recording and collection and the submitted and previously published texts are taken into consideration. It already represents an original and significant contribution to knowledge that goes far beyond the limited catalogue of the last major publication in the field (Eogan 1965) in terms of data quality, range of analysis and interpretative depth. The innovative use of theory and method of object biographies in the PhD thesis has already served to highlight previously unappreciated or unknown patterns and insights into the production, use and deposition of swords in Bronze Age Ireland.

Substantial progress has already been made to record the remaining c. 15% of Bronze Age swords from Ireland. In addition, funding and support for the final publication as a monograph has started to be donated from Bronze Age scholars from across Europe. Our contention - as well as the contention of major senior scholars in Ireland, Britain and continental Europe - is that the finished thesis would have made a major contribution to knowledge. As has been noted by many of our Bronze Age colleagues, whilst we were the supervisors for Ian Colquhoun's PhD on Bronze Age swords, the majority of what we, and virtually all other British scholars, knew about the subject was derived from Ian's earlier research (Colquhoun and Burgess 1988).

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1. INTRODUCTION

1.1 AIMS AND OBJECTIVES

The leaf shaped bronze sword is one of the most distinctive and evocative weapons of prehistory. The type appears throughout Western Europe in the final centuries of the second millennium BC only to disappear as an artefact type with the widespread introduction of iron weapons hundreds of years later. The widespread distribution of the bronze sword points to the increasingly martial nature of Late Bronze Age society, a feature echoed in Ireland by the appearance of defensive landscape features.

The expansion and development of Irish archaeology in the last fifteen years has rather left metalwork and swords, in particular, behind, as the main focus has moved away from artefacts towards settlement. It is only in recent years that interest has revived in the Bronze Age and bronze metalwork. Over six hundred swords have been recovered from Ireland, the vast majority being nineteenth century finds. Most belong to the equivalent of the Ewart Park type in Britain – but there are significant numbers of early flange hilted weapons and of the late Gundlingen type.

This will be the first major study of the development and context of the Irish swords since George Eogan's work of the 1960s. It will examine, in addition to those weapons listed in Eogan's catalogue, all of the more recent discoveries, and will take as its central theme the biography or life cycle of a sword, from manufacture through to use and deposition, with the emphasis on the latter. My *Prahistorische Bronzefunde* volume on the British swords, co- authored with Colin Burgess, provides a useful compass for arranging this analysis.

The main objectives of the research are:

- 1 To establish a biography of the Irish sword
- 2 To evaluate how swords started their life cycle

- 3 To examine the different uses of the sword
- 4 To assess the death of the sword, paying particular attention to deposition and location

1.2 Reasons for this Study

2. HISTORY OF RESEARCH

The Irish swords attracted attention from the early years of antiquarian research. Archaeologia for 1775 contained the drawings and descriptions of two fine Gundlingen type swords from the Bog of Cullie, Co Tipperary. W R Wilde's Catalogue of the Antiquities in the Museum of the Royal Irish Academy, published in 1861, included a chapter on swords, which he acutely recognised as being prehistoric in date. John Evans' seminal 1881 volume on the Ancient Bronze Implements, Weapons and Ornaments in Great Britain and Ireland included many fine engravings and brought together the work of nineteenth century antiquaries.

Twentieth century studies concentrated on development in Britain and Europe until the publication in 1965 of George Eogan's doctoral thesis as the National Museum of Ireland's *Catalogue of Irish Bronze Swords*. Since then study of the Irish material has concentrated on aspects of use and, more recently, disposal. Sue Bridgford looked at wear analysis and concluded that swords were actually used and not just for display. Katherina Becker studied swords as a component part of hoard deposition. Barry Molloy continues his experimental work to show how weapons were used in practice. Swords from Irish rivers have been examined by Lorraine Burke and the manufacture of bronzes as a group was studied by Sean O Faolain in a recent *BAR* volume. John Waddell's comprehensive study *The Prehistory of Ireland* examined swords and he commented that they required further study in the light of recent research.

3. METHODOLOGY

The aim of the data collection is to produce an up to date electronic catalogue of all known Irish swords including their provenance, find details where known, measurements and bibliography.

The basis for the catalogue is George Eogan's *Catalogue of Irish Bronze Swords*, published in Dublin in 1965. The information from this catalogue is currently being transferred to the computer catalogue. More recent published finds are also being added. Museum catalogues will be examined for other unpublished swords discovered since the 1960s. Bibliographical references are retained in Endnote and cross reference with the catalogue.

The catalogue records the following information: provenance (where known), county (where known), Museum number, collection, Eogan Catalogue number, Eogan Class, Type (my sorting), status, length, maximum blade width, shoulder width, weight, patina, hilt arrangement, condition, find circumstances, associations, bibliography, and research notes.

The catalogue uses Open Office which is similar to and compatible with Microsoft Access.

I intend to redraw all the complete swords or significant fragments which I am able to locate and where they are accessible. This will involve an initial pencil outline drawing, then shading in the details of the hilt, a section of the blade, and the tip. Measurements will be made using a tape and vernier caliper, and weights taken using electronic scales. Associations will not be drawn. All swords drawn will also be digitally photographed.

I also have access to drawings of Irish swords made by Colin Burgess in the 1960s to use where the original swords are not accessible. Final drawings will be pen with stipple shading.

These will be recorded as digital photographs. With the exception of swords from excavated sites, it is unlikely that I will be able to locate an exact provenance for more than a handful of swords, so I am interested in the position of findspots within the wider landscape and the potential proximity to other archaeological sites and features. The Ordnance Survey of Ireland Discovery Series at a scale of 1:50,000 will provide the basis for site location. Google Earth will also be used where appropriate.

The following methodology will therefore be used:

- 1 The creation of an electronic catalogue to hold all the necessary data relating to each sword and sword mould in relation to find circumstances and individual characteristics.
- 2 The recording, drawing and photographing of swords either recently discovered or requiring further examination.
- A study of the current state of knowledge of the manufacturing process and a comparative analysis of the data.
- 4 The assessment of published data on sword composition to establish use.
- 5 An evaluation of experimental work.
- 6 Examination of the reasons for death.
- 7 An analysis of the locations of death
- 8 The creation of a bibliography using Endnote.
- 9 An investigation of how the history of research has affected our current knowledge on swords

4. THE BIRTH OF THE SWORD

4.1 INTRODUCTION

This chapter provides a perspective on the current evidence for bronze sword production during the Late Bronze Age in Ireland. It views the manufacture of a sword as the birth of an artefact which develops a life and status of its own within a society conscious of the importance of prestige, power and display. Weapons played a central role in this scenario (Waddell 2000, 225). The chapter is divided into three parts. The first examines the extraction of the raw materials from which bronze is made, mainly copper and tin. Secondly, the process of producing the bronze to make the swords will be studied. Finally, the evidence for the status in society of those people who had a role in the birth, however small – the miners and smiths – will be reviewed. All radiocarbon dates given in the text are calibrated.

The birth of such a prestigious weapon as a sword is considered here to be a process that was not just technological but involved also an input of a more spiritual and probably prescriptive nature. Anthropological studies have repeatedly stressed the rituals that surrounded the processes of extraction, processing and manufacture, and the rules and taboos concerning gender or status that allowed or forbid the involvement of groups or individuals. In this context the birth is in itself a process that imbues people with distinctive roles, each playing a part in the magical transformation of base material into a weapon which is destined to have a life of its own. A successful birth is likely to have needed the beneficial intervention of gods, spirits, ancestors or living individuals. It would have depended on the correct procedure being adopted for each stage of the manufacturing process. Historical records of ceremonies practised in early twentieth century Africa by groups of social complexity akin to that of late prehistoric Ireland may provide some potential parallels. One example is Katanga in the Congo, where, in 1910, the Belgian Catholic missionary Monsignor de Hemptinne witnessed the whole procedure from mining to casting copper ingots overseen by a maitre sorcier who made sure that all the requisite procedure was undertaken correctly (Herbert 1984, 34). A failure to undertake the process properly could have serious consequences.

In practical terms the manufacture of swords in bronze was a lengthy, complex, time consuming and skilled process. The procedure involved the extraction of ores and minerals, washing and crushing the ore, the transportation of copper and tin over long distances, melting, casting using high temperatures, and finishing the product. There was also an element of recycling, as used bronzes were broken up and transported where necessary (although there is limited evidence for the use of founders' hoards in Ireland compared to Britain), to be remelted and formed into new weapons or tools. In this context the death of one artefact lead to the birth of another, a factor which we must consider would not have escaped the minds of prehistoric people

4.2 METAL EXTRACTION AND PROCESSING

Bronze is an alloy of around 90 to 95 per cent copper and 5 to 12 per cent tin. Copper, therefore, is the main constituent. The first steps in the birth of the sword were the extraction from the earth of the raw material from which the sword was cast, the copper and tin. In order to fully appreciate the potential importance of the bronze sword to Late Bronze Age society, we need to explore the archaeological evidence for mining and processing. This will be examined under five headings. Firstly, the copper and tin resources available to Irish metalworkers. Secondly, the archaeological research on prehistoric mining in Ireland will be explored and compared with evidence from elsewhere in Europe. Thirdly, processing and smelting of ores will be examined. The final section deals with the amalgamation of the two metals, copper and tin, to produce bronze in the melting process, and also takes into account the role of recycling using artefacts.

4.2.1 Copper and tin resources

The sources for copper bearing ores in Europe have been the subject of detailed investigation over the last few decades. While there are large and well investigated deposits in central Europe, Ireland and Britain too have known substantial natural

resources (Harding 2000, 198; fig 6.1: Ottaway and Roberts 2009, 200 fig 4.8a). In Ireland there are, or were, deposits along most of the Irish coast, with particular concentrations in Wicklow, Waterford, west Cork, Kerry, and western Galway (Jackson 1978, Map 1: Ó Faolain 2004, fig.6.1). Inland there are concentrations to the west of Lough Neagh and the lower reaches of the Shannon. Two large areas stand out as being copper-free; inland Cork and the counties of the Midland plain. There are no secondary sources of copper, such as alluvial stream deposits; all the above sources are bedrock deposits which would have initially been noticed as surface outcrops (O'Brien 1996, 11). Once fully exploited, these would have been followed to ore bearing veins requiring more labour intensive extraction, normally underground. Copper ores are therefore often found near to native copper deposits.

The second main component of bronze was tin. This was a rarer commodity. The main source has been and still is the mineral cassiterite which can be mined as a vein deposit or recovered through panning from the alluvial beds of streams as pebbles, weathered from vein cassiterite (Meredith 1998, 23). This mineral occurs with granite, the rock which underpins the geology of the western seaboard of Europe. The primary source, therefore, for the whole of western Europe in prehistory is believed to have been the panning of stream tin from the vein deposits in Cornwall and the west of Devon, although there is no archaeological evidence for prehistoric workings. There is, however, one recorded instance of tin slag from Cornwall, from an Early/Middle Bronze Age burial at Caerloggas (Tylecote 1987, 307-9) which at least suggests local smelting, presumably from locally mined tin. Other known major sources of cassiterite are in Brittany and the Iberian peninsula (Meredith 1998, 29, fig 5.1: Kristiansen 1998, 30, fig.11), though, once again, there is no archaeological evidence for prehistoric exploitation in either area.

4.2.2 Mining

While copper bearing ores are therefore widespread over much of Ireland, the majority of the archaeological evidence for exploitation of the ores comes from O'Brien's work in the South West. At Mount Gabriel in west Cork radiocarbon dates from wood and charcoal recovered from the workings suggest that the main period of

exploitation was between 1700 and 1500 BC (O'Brien 1996, 37). Any evidence for the other resources (especially the eastern deposits) being worked in antiquity is based on nineteenth century accounts of what were called by contemporary miners 'old men's workings' (O'Brien 1996, 9). These were old workings of indeterminate date, in practice belonging to a period beyond living memory at the time using what were considered to be primitive methods. There is therefore nothing to show they were worked specifically in prehistory.

There is an absence of evidence for copper mining during the Late Bronze Age either in Britain or Ireland. Even the extensive and well explored workings at the Great Orme in North Wales have provided few dates later than the eleventh century BC (O'Brien 1996) and most cluster around the fourteenth century BC (Lewis 1998, 49; Chapman 2006). These Early and Middle Bronze Age dates are notable because most of the bronze metalwork from Ireland – and indeed Western Europe – can be dated to the Late Bronze Age. It has been argued that one difficulty with recognising later prehistoric workings is that they have continued in use and were worked out in later historical periods, leaving no archaeological trace (O'Brien 1996, 57). This does not, however, explain why the earlier workings should survive unscathed. However, there is evidence for mining throughout the entire Bronze Age from central Europe, such as a number of known sites in the Mitterburg area of the South Tyrol (Harding 2000, 211). It is possible that central European sources supplied the British Isles through trading networks built up over hundreds of years, perhaps as a result of an exchange process involved in the supply of tin from south west England. This interpretation is strengthened by the results from metal analyses, which suggest that the main source of copper for Ireland and Britain in the Late Bronze Age was central Europe, whether in its pure form or already alloyed with tin as recycled bronze (Harding 2000, 189, 204; Bradley 2007, 224). Thus Late Bronze Age swords made in Ireland may have been cast from a mix of British tin and central European copper.

Regarding the deposits of cassiterite (tin oxide) in Ireland, these are located in the Wicklow Mountains, the Mourne Mountains, and Galway Bay. However, tin occurs in all these places only as traces and until recently it was believed that these sources were unlikely to have been worked in the Bronze Age (Penhallurick 1986, 111). Jackson (1979, Map 1) has also mapped the tin sources in Ireland and is also of the

opinion that the majority of the sites would have been too difficult to exploit successfully. Some controversy surrounds the possibility of tin having been streamed from cassiterite in the Gold Mines River at Ballinvally in County Wicklow (Waddell 2000, 140: Harding 2000, 200). The cassiterite occurs here alongside gold in the alluvial sands and gravels. Jackson thinks it improbable that gold panners would have been unaware of the abraded crystals of cassiterite which reportedly can be found alongside the gold in the river beds, and that they would therefore have gathered the tin. When the gold resources here were exploited using stream panning methods during the 1930s as part of a state sponsored unemployment relief programme, cassiterite was, by volume, found to be as common as the recovered gold (Jackson 1978, 123). Budd, however, has also examined the potential for this tin source and has argued that, firstly, the quantities of cassiterite were not as substantial as Jackson suggested and, secondly, that their exploitation would not have been practicable in prehistory because the tin mineralisation is not derived from the same source as the gold and the two would not necessarily be present together (Budd et al 1994). That Ireland is a major source of Middle and Late Bronze Age goldwork is undisputed (Cahill 1995: Waddell 2000, 243). What is less clear is where the gold came from, as there is no evidence for prehistoric exploitation at the Gold Mines River (Penhallurick 1986, 113-4).

Recent research published in *Archaeology Ireland* has suggested that the western valleys of the Mourne Mountains in County Down were the major source for Early Bronze Age gold in Ireland (Warner, Chapman, Cahill and Moles 2009: 2010). This is because analysis of the composition of gold from this area matched the proportion of silver and copper present in Early Bronze Age gold ornaments. In addition tin is minutely but measurably present in a large number of Irish lunulae (averaging around 0.04%). However, because of the way the gold collects in the Mournes, it is more likely to have been 'mined' from fluvial deposits than panned from the streams and rivers. The authors discovered that cassiterite can collect with the gold in these deposits. Collecting minerals in this fashion is known as streaming. Whether the miners were originally looking for tin or gold is unknown, but the authors believe that the Mournes may have been a significant source of tin in the Early Bronze Age at least, and it is possible that the area remained a source into later prehistory.

Wherever the copper and tin came from, the initial step in getting it out of the mineralised rock was the same. This was removed from the underground faces by 'fire setting', a system of using fires set against the faces causing them to weaken. Water could then be used to hasten the fracturing effect. O'Brien (1996, 22) has calculated that the prehistoric operations at the copper mines at Mount Gabriel in Kerry would have consumed large amounts of timber in fire setting alone, making a steady supply of timber a prerequisite for successful extraction. In fact, large amounts of timber would have been needed throughout the entire procedure of mining, processing, smelting and casting.

4.2.3 Crushing and smelting

Once the mineralised rock or 'gangue' had been freed, the next step in producing metal suitable for casting is converting the gangue into a concentrated ore suitable for smelting. In the Bronze Age this was done by crushing the extracted rock using stone hammers and anvil slabs, and then selecting the visibly mineralised rocks. Thousands of stone hammers have been found at the Great Orme and at Mount Gabriel, normally in mounds outside the mine entrances (O'Brien 1996,40) clearly indicating that this work was done on site. By themselves these stone hammers are impossible to date and are evidence only of 'primitive' mining using methods which, it has been suggested, continued into late Mediaeval times (Briggs 1988, 327). An alternative modern process of ore extraction involves floating the gangue in chemicals or water, and it is possible this method was also used in prehistory, though it is difficult to show archaeologically that this was practised. Such 'washing' sites have been the subject of recent studies on the Great Orme where there are a number of wells suitable for this activity within a three kilometre radius of the mines (Chapman 2006). Eogan (1993, 92) has suggested that at Mount Gabriel a post hole structure with a wooden trough within Mine 3/4 may represent washing activity.

Processed ore contains minerals and impurities which are not needed or are considered undesirable in the production of copper. Smelting is the process whereby

the concentrated ore produced by crushing is reduced to a state suitable for a smith to use to cast artefacts. The process involves the use of a large quantity of charcoal, perhaps a ratio of 15: 1 charcoal to ore or even higher, to concentrate the metal in one place by removing the unwanted material within the ore. This is done by placing the ore in a crucible within a furnace and firing the furnace with charcoal to a temperature of 1083 degrees Celsius (Harding 2000, 216). The waste is allowed to run off producing slag. Copper is then concentrated at the bottom of the crucible in the shape of a bun ingot. Copper sulphide ores, such as those from south west Ireland, may also have required roasting to remove the sulphur and convert the ores into copper oxide (Ottaway and Roberts 2009, 206).

There is no evidence for Bronze Age smelting in Ireland, yet it is an essential part of the process of manufacture. Slag is inevitably produced at some stage during the ore to metal process, is virtually indestructible, yet is curiously almost entirely absent from prehistoric contexts throughout Ireland and Britain (Craddock 1986; O'Brien 1996, 31; Harding 2000, 216). In Britain the only slag of possible prehistoric date comes from a site excavated in the 1990s at Pentwrwyn on the Great Orme in North Wales (Roberts 2002, 31: Chapman 2006) where over a hundred small copper rich fragments were found, although unfortunately most of these are more likely to relate to later Mediaeval activity. The furnace itself has been dated to 1580 BC from charcoal fragments. The working area was a small platform at the foot of a cliff over a kilometre away from any known mining site. This paucity of slag can be contrasted with the situation elsewhere in Europe. In the Mitterberg area of the Austrian Alps prehistoric slagheaps have been recognised since the nineteenth century (Herdits 2007) while Late Bronze Age settlements in southern Germany regularly produce evidence of slag in their vicinity as well as crucibles (Harding 2000, 216). This dilemma has been discussed by Timberlake (2003, 106: 2007, 34). He suggests, amongst other possibilities, that the small amounts of slag may have been finely crushed to release small quantities of copper and that the ore XXXX. An alternative explanation has been put forward by Meredith (1998, 19) who has pointed out that any very rich ore will produce almost no slag. It is possible that properly sorted Irish ores in prehistory may well have been very rich, thus producing little or no slag.

A third possibility exists, however. Smelting away from the mining sites could account for this curious absence of slag from the vicinity of the mines. The large amounts of charcoal needed in the smelting process would require large quantities of available timber. Lewis (1996) has argued that on the Great Orme it may have been more feasible to transport the ore to a location where wood was readily available than to transport charcoal fuel for smelting to the mine site, although there is no archaeological evidence for this. It has already been mentioned in connection with fire setting as part of the mining process that access to suitable supplies of timber may have been a problem on many of the Irish sites.

4.2.4 Melting and recycling

Melting involves the heating of copper and tin, or previously cast bronze, in a crucible. This produces a liquid alloy suitable for casting. The archaeological record in Ireland clearly shows that the alloying of copper with tin to produce bronze swords took place at locations well away from the known mining, processing and smelting sites. This means that the copper and tin had to be transported and presumably traded over large distances. Smelting produced bun or cake shaped ingots as the copper collected at the bottom of the crucible (Rowlands 1976, 7). These turn up occasionally in Late Bronze Age hoards, although many could equally be recycled bronze, such as the example in the recently discovered hoard from Berwick upon Tweed in northern England (Needham, Varndell and Worrell 2007). A plano-convex ingot in the hoard from Cooga, Co. Sligo is very close in size and shape to the base of a reconstructed crucible from Rathgall (Ó Faolain 2004, 23, pl 3.1). Two solid undecorated rings of pure tin together with bronze rings were found in the hoard from Rathinaun, Co. Sligo (Eogan 1983, 151). These may have served as tin ingots similar to the bronze or copper ösenringe common in central and northern Europe (Harding 2000, 218).

The evidence for recycling of used artefacts to provide bronze is difficult to identify in the Irish archaeological record. Waddell (2000, 201) has discussed the Roscommon Hoard, a large collection of scrap bronze pieces including at least one fragment of a sword blade. Robert Day, a Cork collector, was offered the hoard, allegedly

numbering 200 pieces, in 1870, but found the asking price for the entire assemblage too steep and bought only a selection. Where it came from in county Roscommon is unknown. Few other hoards appear to fit into this 'scrap' category. One example which includes a sword fragment is from Dreenan, Co.Fermanagh (Eogan 1983, no.76: Ó Faolain 2004, fig. 2b). This lack of evidence for recycling of used weapons and artefacts is remarkable given that 'scrap' or founders' hoards can be found throughout Britain, though especially in the south, and are common on the Continent.

4.2.5 The Silent Miner

The long time span over which copper was exploited and the destruction of prehistoric workings by subsequent operations makes any analysis of how Bronze Age mining operated difficult. Both the population and the amount of copper and bronze in circulation must have varied throughout the Late Bronze Age. The number of people involved in metalworking would equally have fluctuated. The lack of radiocarbon dates and the difficulty of gauging the scale of mining operations at any particular period makes any estimate of the number of people involved at any one time impossible. It has been suggested that most of the mines in Ireland were small scale kin-based ventures located close to parent settlements and worked seasonally (O'Brien 2007, 29); this would have been mining at a local, domestic level (Briggs 1988, 331). In this scenario farming took priority and the mining work would have been based around slack times in the agricultural year. Mines would have varied in size and complexity, with many being little more than surface workings (O'Brien 1996, 56).

Prehistoric mining involved adults (and probably children) working underground in tunnels and passages which were difficult to access and potentially dangerous. This very inaccessibility was in itself perhaps a necessary start to the birth, an inherent feature of the necessarily protracted process of manufacture. Bradley's description of the 'axe factory' sites at Great Langdale as places apart from the 'sphere of everyday activity' (Bradley 2000, 85) would have been equally applicable to Bronze Age mines. Ores came from the underworld, a place at the interface of life and death where most people, then as now, would have felt uncomfortable, if not afraid. This

fascination with locations at the limits of human can be traced from the Neolithic through to the Iron Age. In the Late Bronze Age echoes of this fascination with the underworld can be seen in the cave sites throughout Europe where bronzes as well as human remains were deposited in their hundreds, such as the Heathery Burn Cave in Co. Durham (Harding 2007).

4.3 SWORD PRODUCTION

Up to this point we have discussed the extraction of minerals and techniques of production of metal common to all types of bronze metalwork. The next stage was the process of birth, the translation of the raw material into a sword, in itself an object of power and prestige. Most evidence for sword production comes from northern and eastern Ireland, though it is of course possible that manufacture took place throughout the whole country, as bronzes can be cast anywhere. The limiting factors are expertise in the casting process, a ready supply of fuel and the wealth or power needed to be able to control or trade in the metal supplies. Casting at high status sites such as Dun Aonghasa suggests that a further point was the status required to be involved in the organisation or patronage of bronze weapon production, as opposed to tool or ornament manufacture.

4.3.1 Casting

Bronze can be cast into artefacts using a variety of processes involving moulds. These were normally made out of stone, clay or even bronze. The basic principle is that molten bronze is poured into the mould, the exact process depending on the product being manufactured. Experimental work, especially with swords, has provided much information and has been discussed in detail elsewhere (Ó Faolain 2004). The length and shape of swords makes the casting process particularly awkward. Clay mould fragments for different bronze types including swords have been found in various locations throughout Ireland and form the most common type of mould (Appendix C). Stone moulds for swords are known from the continent, but none for Ireland. The only example mentioned in the literature, provenanced merely as 'Ireland', has been

discussed by Eogan (1983, 189) and would have cast a blade with an ogival cross section more appropriate to a dirk than a sword.

Clay moulds were made in two pieces (called valves) normally comprised of two layers. The inner layer was made of fine clay into which a pattern was pressed while it was still soft. The outer layer was composed of a coarser grade of clay. To align the two halves corresponding depressions or projections were made on each valve. Further projections were left where holes were needed, for example the rivet holes on sword hilts. Once the two valves were fitted together the whole mould was baked, leaving a gate or funnel at one end to facilitate pouring in the molten metal. Sword moulds also needed a strengthening rod to stop the mould from breaking along the length. At Dun Aonghasa the clay used for the sword moulds appeared to be from a different source than the pottery from the site (Ó Faolain 2004, 36) suggesting deliberate selection of different clay for different uses, whether for practical or symbolic reasons. Quartz temper had also been added, presumably to increase the heat resistance of the mould material. Careful selection of suitable clay was equally evident amongst the mould debris from a bronze working site at Dainton, Devon, where clay had been brought from outside the immediate locality as that found locally was too fine to have withstood the casting process (Needham, 1980, 194). The selection of carefully chosen clays and tempers in domestic pottery manufacture is well attested in Ireland at sites such as Lough Gur, Co. Limerick (Waddell 2000, 210). Lime in the clay, for instance, makes for a poor casting (Dutch caster, per comm.)

4.3.2 Sword Mould Deposition

Deposition of complete swords will be discussed elsewhere, but here it is worthwhile considering more closely the deposition of moulds and mould fragments, as they represent the medium through which bronze smiths were able to practise their expertise and, as outlined below, may have had an intrinsic value. Once clay moulds had been used to make bronzes they could not, unlike bronze or stone, be effectively reused in bronze manufacture or recycled (Bridgford 1997, 101: Neil Burridge, pers. comm.). Swords are by far the commonest of the identifiable clay mould fragments for weapons found in Ireland, accounting for 75% (Ó Faolain 2004, Table 5.1). What,

then, is the significance about where the clay mould fragments listed in Appendix C were discovered? There are four obvious possibilities, all of which are of potential interest as they shed some light on the importance of the process of sword manufacture and the materials used. These possibilities are discussed below and put into diagrammatical form in Table 1:

- A They are the *in situ* remains of weapon production, the debris of manufacture.
- B They are the remnants of weapon production, intentionally deposited at the place of manufacture.
- C They have been deliberately collected at the place of manufacture and dumped elsewhere as industrial refuse.
- D They have been deliberately collected at the place of manufacture and intentionally deposited elsewhere to fulfil a function beyond that of the debris of production.

	Intentional Deposition	Unintentional Deposition
Place of Manufacture	В	A
Other than place of	D	С
manufacture		

Table 1: Deposition of Bronze moulds

The term 'place of manufacture' requires some clarification. Here it is taken to mean within the immediate area of production, that is within the building or structure within which the process took place. I hesitate to use the phrase 'workshop' for two reasons. Firstly, this implies a building used primarily for making artefacts in the modern sense, and this may not have been the case, as the building may have had other functions at other times, including habitation. A weekend spent at a bronze sword festival in September 2009 involved the casting of swords inside a replica prehistoric roundhouse. The 'industrial' activity took place comfortably around the ever present central hearth and the immediate environs of the house leaving no permanent evidence. It was also evident that there would have been no great disruption to the everyday activity of domestic life

Secondly, the whole process may have taken place outdoors, away from any building, perhaps at a location used only temporarily or intermittently. One such example is the use of older funerary sites such as the burial mound at Old Connaught, or the sand dunes at Whitepark Bay.

The first possibility listed above is that mould fragments are the *in situ* remains of weapon production, the debris of manufacture. Of the sites listed in Appendix C, most appear to have had a connection with manufacture. Rathgall has been interpreted as a 'major workshop' (Waddell 2000, 273) as hundreds of mould fragments, as well as lumps of waste bronze, gold artefacts and a couple of ingots all came from a black occupation layer within a large roundhouse. This material can therefore be realistically interpreted as the remnants of production within what seems to have been a site of high status, to judge from the other finds such as gold, glass beads and amber. Dun Aonghasa, in a commanding position on a high sea cliff, has also been interpreted as a high status site (Waddell 2000, 221). This site dominates the sea approaches the western sea approaches to the Aran Isles and affords extensive views along the west coast of Ireland (O'Sullivan and Breen 2007, 83). The sword mould, moulds for other bronzes, and crucible fragments all indicate that at least part of the fort was being used for manufacturing weapons and ornaments, namely bronze swords, spearheads, sunflower pins and bracelets (Ó Faolain 2004, 57). The clay mould material here can therefore be interpreted as debris. The moulds from Lough Eskragh and Bohevny suggest that one function at least of crannogs was for the production of bronze weapons, though, as lake levels have fluctuated since the Bronze Age, the presence of moulds may equally indicate lakeside manufacture in the vicinity of the crannogs (Dixon 2004, 25). The moulds from White Park Bay on the north coast of Ulster show that bronze manufacture was taking place amongst the extensive sand dunes, either in a building or outdoors.

The second possibility suggested is that the mould fragments are the remnants of weapon production, intentionally deposited at the place of manufacture. Intentional in this context means moulds which appear to have been placed in a location at the place of manufacture for a reason and not just left as casual debris. It is difficult to see how any of the Irish moulds listed here could be fitted into this category. For instance, the

material quoted above from Rathgall, Lough Eskragh and Bohevny appears as debris rather than being deliberately or carefully buried or placed.

The third suggestion is that the mould fragments were deliberately collected at the place of manufacture and dumped elsewhere as unwanted industrial refuse. This option therefore deals with the deposition of moulds away from the site of production. Dumping, for example, could account for some of the material discovered from the periphery of crannogs such as Lough Eskragh, although this could also be the result of lakeside manufacture. Recent studies have examined the concept of refuse in the late prehistoric context in some detail and questioned whether people in prehistory viewed used material such as clay mould fragments simply as waste in the modern sense (Hill 1995). Here it is worth considering the 'midden' sites which have been recognised in southern England, such as Potterne (Lawson 2000) and East Chisenbury (McOmish 1996) in Wiltshire. These date to the Late Bronze Age/ Iron Age transition.

Metalwork and fragments of clay moulds and crucibles not directly connected with production have been recovered from what is in essence a huge accumulation of used organic and inorganic material which seems to have been the focus of collective activity from the beginning of the Late Bronze Age to the early Iron Age. These were probably sites for regular communal feasting on a large scale. The amount of material accumulated would have been sufficient to make these sites a landscape feature in themselves. Curiously the bronzes found in the fill are tools rather than weapons. This may suggest a dichotomy between sites chosen for tool and weapon production.

The final option is that the mould fragments were deliberately collected at the place of manufacture and intentionally deposited elsewhere to fulfil a function beyond that of the debris of production. It is surely significant that the man-made pool at the King's Stables, where mould fragments were discovered in 1975, is part of the Navan complex (Lynn 1977, 50-2, 56; Cooney and Grogan 1995, 170). Cooney and Grogan (1999, 196) have visualised the King's Stables as a place of formal deposition for Haughey's Fort while a similar pool at Loughnashade may have played the same role for nearby Emain Macha. Elsewhere, it is possible that the mould fragments from Old Connaught – in an embanked mound, possibly a burial site – may also suggest deliberate deposition away from the site of production rather than production *in situ*.

There is evidence from southern England to suggest that mould fragments were still of intrinsic evidence after they had played their role in the formation of a weapon. Sword moulds discovered at Springfield Lyons, Essex (Buckley and Hedges 1987) appear to have been carefully and intentionally deposited in the ditch terminals immediately to the north of both western and eastern entrances. Bradley (2007, 209) has recently suggested that such ringworks, which are increasingly being recognised in southern and eastern Britain, played a role in weapon manufacturing. Similar ringworks to Springfield Lyons, such as Navan itself, exist in Ireland in some numbers. The evidence for production within the Navan complex comes from the mould fragments deposited within the ritual pool at the King's Stables as discussed above, which, it is suggested, is likely to be near to the place of manufacture.

4.3.3 The Elusive Smith

Any reconstruction of how smiths operated in prehistoric Ireland is based on what we can deduce from known production sites and an appreciation of bronze working in historical and ethnographic contexts. To this end the Bronze Age smith is an elusive character. The situation regarding his or her position in society must have been, as Waddell (2002, 202) noted, a complex one, steeped in custom, tradition and taboos. Smiths may have held high status, perhaps according to what they made or their level of skill. The existence of sword and predominantly weapon moulds in the apparently high status sites at Rathgall and Dun Aonghasa may indicate, for example, that the production of weapons only took place at such important places under the control of local chiefs. By the same token the existence of moulds and tools – and no weapons at the 'midden' site at Potterne in Wiltshire (Lawson 2000) may indicate that domestic tools were made by a different, perhaps lower caste of smiths, or that they were considered very much as within the domestic domain of the community. It is worth pointing out, however, that the complexity of casting in itself would not appear to be greatly different whether a socketed axe, a chisel, or a sword was being made, so perhaps therefore the actual location of production for any particular artefact is of major symbolic importance. This may be why we have no weapons from the southern English midden sites. Needham (2007) has recently discussed what he calls the *life* assemblage - the full gamut of metal material in active use in a given space and time – which is not echoed in the archaeological record as this is more weighted towards prestige objects and hoard depositional episodes. It may well be that the life assemblage exists as a concept from birth, that is that the separation of different artefacts, essentially martial or domestic, existed from the very start of their lives. They were made in places specific to their type.

The ethnographic account quoted in the introduction concerned the rituals surrounding the casting of copper ingots in the Congo of the early twentieth century. These involved a master of ceremonies whose task was to make sure that the procedure necessary for successful casting was undertaken correctly. This should remind us of the responsibilities, other than technical competence, that go with being a master metalworker. Things were doubtless no different in prehistoric Europe. Barber (2003, 133) in a discussion of metalworking practices, has pointed out that, 'no distinction is evident in the ethnographic record between technology and ritual (or 'magic')'. Briard (1976, 189) quotes one of the rock carvings at Val Camonica in the Italian Alps showing a smith at work wearing what appears to be a strange feathered headdress. Whatever the practicalities of the casting process, magic and correct procedure had an important role to play in the birth of a sword. An area of investigation for the future is the recognition of symbolism at the actual place of production. In some African societies the various parts of iron smelting furnaces are replete with sexual symbolism connected to fertility (Schmidt 1998, 143-159) and production is highly ritualised. This involves, amongst other acts, the placement of various artefacts or tokens of a symbolic nature with the furnace in order to ensure its fertility.

In addition to status, the role of gender in metalworking has also been recently examined. Sørensen (1997, 49) has questioned the view of metalworking as both exclusively male and solitary, and considers that it is better seen as a group activity. Many sites in northern and western Europe have produced mould and crucible fragments suggesting that this activity took place as part of the normal life of the settlement, in areas that were also used for other purposes (Harding 2000, 238). Mould manufacture, like pottery making, may have been gender specific, though it is

likely to have involved a number of people. The clay, for example, may have come from more than one source for different parts of the mould.

Rowlands (1971) has discussed the variety of different roles and practices smiths undertake or have undertaken and which are documented in the anthropological literature. The vast majority, however skilful or specialised, work within their communities as members of these communities, not as outsiders. Interestingly, he also found that the method by which the smiths obtained the raw material, especially second hand metal, varied enormously. In some societies it was the responsibility of the customer to provide the scrap for recycling, making the collection of the bronze the responsibility of a non-specialist who would play no other part in the production of the required artefact.

There is another reason to view casting as a group activity. In a society where death was common, the various skills and knowledge of procedure could not be allowed to die with individuals. Writing in the first half of the twentieth century, Childe (1940) envisaged bronze smiths travelling the countryside, either alone or in groups, making goods as required by the local market. In his interpretation of the past one lone Irish smith, driven by necessity or enterprise, set up his workshop at Jarlshof in Shetland. This lone smith would have needed a handful of apprentices to make sure the techniques were passed on, and most of the apprentices were destined to die in early adulthood, if not before. It is surely more feasible to suggest that only the acceptance of bronze working as a group activity, where many were competent if not skilled, would have allowed the knowledge of techniques to survive, as they unquestionably did, from generation to generation. Herbert (1984, 47), discussing the ethnographic data for Africa, has pointed out that there are only isolated examples of itinerant smiths. The majority of coppersmiths were an integral part of a settled community, initiated into their craft as a hereditary specialisation.

Budd and Taylor (1995) argued that the role of magic was paramount in the world of the metalworker whose place in society was driven as much by a social as a technological role. They stressed the importance of communal activity of a social or ritual nature being an integral part of the metallurgical process, and downplayed Childe's view of the prehistoric metalworker as a technologist driven by a more rational concept of experimentation and improvement. The making of swords and other weapons involves far more than just casting. Finishing and polishing and sharpening may be labour intensive but they are also social activities involving many hours around the fire or sitting outside in the sun of an Irish summer being involved in repetitive activity with others. Such group activity in the finishing/polishing of artefacts had been going on for thousands of years, such as the final polishing of Irish axes (Cooney and Mandal 1998).

Another issue concerning the location of production is the importance of a ready supply of fuel, both timber and charcoal, for the casting furnace. The supply of timber has already been mentioned in connection with mining. Aside from fuel, wood was also needed in both quantity and quality for building houses (Pope 2008) and boats (Gifford and Gifford 2004), so sources must have been carefully managed. Such responsibility can perhaps best be seen as being rooted in the tribe or family. Put simply, it would not have been possible to cast successfully without good supplies of fuel. While this was low level production when compared with later centuries, it is worth pointing out the massive quantities of timber required for industrial production in historical times before the widespread use of coal. Whole forests in Highland Scotland were destroyed to feed the hungry seventeenth and eighteenth century iron furnaces (Millman 1975, 87).

4.4 CONCLUSIONS

The number of swords found in Ireland show that the country was, notably in the Late Bronze Age, a user of high quality weaponry. Where did the raw material to make these weapons come from? There are big gaps in our knowledge about mining in this period, as the archaeological evidence relates almost entirely to the Early Bronze Age. This chapter has explored the archaeological evidence for the mining of copper and tin in Ireland. We have seen that, although there are known copper deposits throughout much of Ireland, the evidence for prehistoric exploitation is restricted to the ore bearing veins of the south west during the Early Bronze Age. These appear to have been exploited on a relatively small scale, and the work of mining is most likely

to have been seasonal and family based. Copper for the swords of the Late Bronze Age would have come either from the major deposits of central Europe, or from recycled bronze artefacts. As far as tin is concerned, it is possible that this was panned in the Wicklow Mountains where there are limited deposits, though it is more likely that the tin mines across the Irish Sea in Cornwall and Devon provided all that was needed.

There is, however, evidence to show that swords were being made in Ireland. Fragments of clay moulds for making swords have been found at sites which are clearly of high status, such as The King's Stables, Co. Armagh, Rathgall in Co. Wicklow or Dun Aonghasa in Co. Galway. This suggests that sword manufacture was under the patronage or control of a warrior aristocracy who had access to metal supplies. In northern Europe a large number of Danish sites have produced mould and crucible fragments together with bronze waste. Levy (1991) has suggested that some Urnfield settlements specialised in bronze manufacture which was then distributed to 'user' sites. Fortified sites in this model played a role as distribution and recycling centres, and it is possible that high status Irish forts and other sites such as crannogs played a similar role. Given the evidence for production at these sites it is possible that they fulfilled a dual role as both production and distribution sites for prestige metalwork. This will be discussed further in the chapter on 'The Life of the Sword.'

It is suggested therefore that the whole process of sword manufacture, from the mining of the ore to the breaking of the clay mould, should be seen as an activity involving a large number of players, some highly skilled, some learning, and others competent at ancillary tasks. Smiths could not have operated without the assistance of others involved in tasks as complex as mould manufacture or as mundane as wood collection to manipulation of the bellows. The smith would have had overall control of an operation that could have, at least temporarily, involved many people with individual and perhaps well-defined tasks at various levels of complexity. Experimental work has improved our knowledge of casting, and there is evidence suggesting careful choice in the materials used for moulds.

We do not know, therefore, how the making of a sword from copper and tin to the final weapon was organised but, from modern ethnographic parallels, it is likely that this was an activity bound in ritual with a notable community involvement. Such ethnographic parallels can be helpful in suggesting a model for the role of the master smith, but we should be careful in not allowing preconceptions regarding status or gender to colour our interpretation of what evidence there is. I would suggest, however, that we should consider any model to be based on shared skills and small scale production in multiple locations. The birth of a sword, the prized possession of a warrior, needed many to assist in the process.

5. THE LIFE OF THE SWORD

5.1 INTRODUCTION

The sight of Late Bronze Age warriors fully equipped for conflict, holding their swords and shields aloft, the bronze glistening in the sunlight, must have been terrifying to an enemy. It has to be realised that a sword, like any deadly weapon, is designed, ultimately, to put an opponent out of action by slaughter. It is a weapon of death, and death at close quarters. Yet a sword is more than just a technically efficient killing tool. In her study of edge damage on Irish swords Bridgford (1997a, 95) put it succinctly: 'a sword may simultaneously be, or have the potential to be, a beautiful object, an efficient killing tool, a symbol of power and wealth, an implied or actual threat, a sacrifice, a gift, a reward, a pledge of loyalty and/or an embodiment of the idea of conflict'. It is an apt question to ask of each Irish sword – what was it used for over its life? Any individual sword would have fulfilled all or some of the roles outlined above. Some may have been used only to impress and were then placed in the ground or a wet place, perhaps when their owner died or was killed. Others may have been passed down over generations and used regularly. Some may have been used to kill; others, equally worn and handled, may have seen only practice combat.

Each particular weapon would gain its own history, its own account of manufacture, use and deposition – of its birth, its life and its death. Each carries the individual marks of the parts it played within the lives and the deaths of people and communities in a distant Ireland of the Late Bronze Age where lives were always uncertain and often short. Each would have been recognised by its maker and the owner, or owners, who may have carried it around with them every waking hour, and guarded it jealously during their sleeping hours.

This chapter is divided into two sections. Firstly, I will look at the beginning of the life of a sword. By this is meant what happened to the sword after it left its maker as a newly cast blade and tang and before it found its owner – or at least its first owner - as a finished weapon. Secondly, the archaeological evidence for the actual use of the

sword as a weapon will be examined. This will include the results of innovative experimental work carried out by various scholars throughout Europe over the last few decades on how the sword may have been used, what style of combat was likely, and what the damage visible on the swords might indicate in terms of usage. Throughout the chapter the evidence for the sword as an instrument of prestige by virtue of its very existence will be analysed. A word of warning though; the different roles given here to the sword cross, or more accurately criss-cross, the categories of functionality, ceremony, 'ritual', and symbolism. Brück (1999) has pointed out the dichotomy between how prehistoric societies are likely to have viewed their behaviour and how we perceive and compartmentalise it from a post enlightenment viewpoint. The boundaries between the different roles which we can perceive rationally may not have existed at all in the Bronze Age mindset.

I have also used 'he' throughout when referring to warriors, for my own convenience. We have nothing in Ireland which ties the use of bronze weaponry in the Late Bronze Age specifically to either gender, as we have no burial associations with weapons. In Europe there is at least some help with gender identification; for example, rock art panels from this period in Scandinavia regularly show sexually aroused male warriors (Osgood at al. 2000, figure 2.14). The Urnfield graves of Late Bronze Age Central and Northern Europe have as yet produced no definitive female warriors, though the general transition from inhumation to cremation in the later second millennium BC has not helped with identification (Harding 2000, 99-100).

5.2 STARTING LIFE

In the previous chapter the places where evidence exists for swords being made in Ireland were identified and discussed. What follows next is a consideration of what happened to these same weapons after the clay mould had been taken apart and the contents revealed, but before they reached the places where they were actually used. This was in a real sense the start of their lives.

5.2.1 The Role of Islands

We have seen in the previous chapter that the evidence from sword mould distribution suggests that swords in Ireland were being made at places that today appear remote or liminal. Such places could be islands, coastal locations or places within easy reach of the shoreline. Even where swords and other bronzes have been made inland, there seems to be a preference for the use of crannogs or what may have been islands within a wetter hinterland. The place where the sword was made seems therefore to have been important. Islands and coastal sites play another role as well, in the dissemination of the finished weapons to their owners. I repeat here from the previous chapter the reasons for the importance of coastal islands, reasons which may be seen as equally appropriate for their role as a conduit for the successful transfer of the sword to its owner:

- 1 Good communication routes by water for raw products
- 2 Good communication routes by water for finished products
- 3 Potential of close control by an elite
- 4 Liminal places difficult to reach
- 5 Liminal places with a cosmological element
- 6 Traditional foci of communication and trade
- 7 Belief in islands as appropriate places to cast bronzes
- 8 Belief in islands as auspicious places to cast bronzes

The role of islands within the wider community of the second millennium BC with an intimate knowledge of the tides and currents of open and coastal waters has been discussed by Needham (2009, 22-25) in relation to the cross Channel connections between southern England and northern France. Needham's concept of a *maritory* – a seafaring community with common values – views islands and promontories as a land-bound extension of a sea centred community rather than as a geographical boundary for a land centred society. This is important when we consider where swords went after they were made, as their transportation would have taken place within the rules and *mores* of a wider maritime community.

5.2.2 Sea Trade

One noteworthy example of a sword type which may have been transported over long sea crossings is the Ballintober type – Eogan's Class 1 – which has a distribution split largely between the North of Ireland and the Thames Valley, although there are a number from south west England and south Wales, suggesting that the connection with the North of Ireland lay through the Bristol Channel (Hodges 1956; Colquhoun and Burgess 1988, 21). This must indicate close links at the beginning of the Late Bronze Age, and perhaps some centralisation of production either in Ulster or southern England. These swords were clearly influenced by continental imports such as the Rosnoën type, of which there are a scattering from Britain but none from Ireland (Colquhoun and Burgess 1988, 13-16).

Unlike stone axes, where petrological analysis can provide a provenance for the starting point of their life journey, there is no way of discovering where individual bronzes were cast. While we may have similar swords from the valleys of the Thames and the Bann, we do not know whether they were made in one, both or neither location. As it is impossible to know where any individual sword was made, it is impossible to know whether it has been traded or carried over any distance. The similarities of design and distribution mentioned above, however, clearly point strongly towards this being the case in practice.

Long distance movement of quantities of Ballintober type swords mean that cargoes of finished bronzes would have been carried across the Irish Sea, and, although we have no such cargoes from Ireland, two hoards found by divers near ports on the coast of southern England have been interpreted as cargoes lost in transit. The Dover 'Langdon Bay' hoard (Colquhoun and Burgess 1988, pls 137 and 138) consisted of fragments of over 40 individual swords, while a hoard found off the Devon coast at Salcombe (Colquhoun and Burgess, pl 137) comprised three rod tanged swords Since the latter was published further underwater excavations in 2005 produced more sword fragments from the sea bed (Parham et al. 2006) and, in 2009, in the same area, divers recovered a Ewart Park type sword amongst a large quantity of copper and tin ingots (Yates 2010). The distribution pattern of associated copper and tin ingots on the sea bed on the most recent find left the excavators in no doubt that this cargo had been

lost as the result of a single catastrophic incident. In total three separate wreck sites have been identified.

While there was no sign of any boat at Dover or Salcombe, prehistoric craft capable of carrying cargoes of bronzes across open seas have been found in Britain, though not as yet in Ireland. By the Middle Bronze Age sophisticated sewn plank vessels such as that discovered in what was in prehistoric times the estuary of the River Dour, beneath modern Dover, would have been capable of making the channel crossing in as little as five hours, given favourable conditions (Van de Noort 2009, 166). That such journeys were regularly made should not surprise us; after all, early Neolithic farmers must have brought cereal seeds and sheep by sea two millennia previously. The concept of close connections between prehistoric communities across the English Channel was recognised long ago as there are so many similarities in bronze metalwork throughout the Bronze Age (Butler 1963: Burgess 1968). More recent excavation work has shown up consistent similarities in ceramics, house design and land allotment (Needham 2009, 20).

The idea of an Irish Sea province encompassing the western seaboard of Britain and the east of Ireland is a similar concept and clear links across the water can be recognised from the Neolithic onwards. A common seafaring community engaged in trade and encompassing the east coast of Ireland, and the west coast of Scotland, England and Wales, would fit Needham's miratory model mentioned above. In an earlier article, Needham (2008, 313) suggested and listed the possible elemental motives for exchange beyond the kin group in prehistory. In addition to the more prosaic and functional reasons, he points out the cosmological view, the idea that travel to places outside the immediate world was considered of value in itself. Helms (1998), in a study of the travels of Ulysses, has suggested that such journeys were a way not only of reaching out into the world beyond, but also of allowing high ranking members of society to prove their mettle by bringing back something of value from the world beyond. Being involved in bringing a cargo of high value weaponry safely across hostile and unpredictable waters may have been a worthwhile achievement for any aspiring young leader.

Close links between Britain and Ireland can be recognised throughout the Late Bronze Age. Eogan's Class 4 swords bear such close comparison with Ewart Park swords that the standardisation of sword types throughout Britain and Ireland during the latter part of the Late Bronze Age is quite astonishing. These Class 4 type swords constitute the vast majority of weapons available for study. The basic hilt features, the blade shape and the cross section vary mainly in detail or length. Irish examples tend to be shorter, but this appears to be a regional variation on features common throughout the British Isles. The implication here is of a commonality of basic design that extends throughout Britain and Ireland, and, judging by the finds of Ewart Park/Class 4 type swords in France and the Low Countries, onto the Atlantic and North Sea coasts of the Continent (Burgess 1968).

Of relevance here is a study of South Welsh socketed axes by Stuart Needham (1981), where he showed that the distribution of the moulds for these axes was largely in southern England. These axes have a distinctive three ribbed pattern on the face. The distribution of the finished product however is mainly north of the Bristol Channel in South Wales. These artefacts, like earlier stone axes, appeared to have had a value away from their area of production, and to have been traded or at least transported across the Bristol Channel. It is therefore possible to show that the finished axes were intended for use in an area away from the zone of production. The implication is that this may have been a common feature of the Late Bronze Age metalworking community, that bronzes such as swords, may have been made in one place with the prime intention of use well away from the area of production, perhaps with the sea/water crossing being of importance as an event which helped towards the successful future of the sword.

The few finds of prehistoric cargoes that we have from western Europe are open to alternative interpretations. In 1923 a large hoard of bronzes was found in Huelva on the Atlantic coast of southern Spain (Almagro 1940) This included many swords with features similar to carp's tongue swords from the French Atlantic seaboard, and has been considered as shipwrecked cargo. The location of the find, in a focal point within a river estuary, has led to the suggestion that the deposition was a deliberate act and thus that the motive for it being there was votive or ritual rather than accidental (Ruiz-Gálvez Priego 1995; Brandherm 2007).

I therefore suggest that a sword made at a distant liminal or even magical location and then brought over long distances, preferably by sea, would have had an attraction of its own by virtue of its origin. Before it was used as a weapon it would have had a story attached. The pulling power of the exotic resonates throughout prehistory. The best known example of this are the well made and finished stone axes of the Neolithic made at places such as the Langdale Pikes in the English Lake District or Tievebullagh in Ulster and then transported over long distances throughout the British Isles (Bradley 2007, 133). Jade axes were even more treasured, and recent work has shown that those from western Europe originate from high up in the Alps of northern Italy (Pétrequin et al. 2006) Their very desirability seems to have been measured by how far they had come and how inaccessible their provenance was. It seems feasible to suggest that an individual sword made at a remote and distant island from across stormy waters would have had a similar cachet.

5.2.3 The Final Touches

Bronze sword blanks had to be finished to a state where they could be useful as weapons, presumably with the help of craftsmen versed in other skills. Swords fresh from the mould needed to be ground and polished, and the edges sharpened. This can be imagined as an activity needing direction rather than a great level of skill, and may have involved children or apprentices using abrasive stones. The attachment of hilt plates would have involved more skill. These, most likely made of antler, bone, or hardwood, were riveted to either side of the hilt, and may have been inlaid with other materials to produce patterns designed to impress. Few organic hilts have survived. Two bog finds come from Ireland: the sword in Figure 1 from Muckno, Co. Monaghan with its bone grip, was illustrated by Evans (1881, figs 358 and 359; Eogan 1965, no.29). The other sword is shown in Figure 2 and is from Mullylagan, Co.Armagh (Evans 1881, fig.361; Eogan 1965, no.91; Waddell 2000, 237 fig 100). The hilt grip on this sword is bulky with rivets attaching it to the sword longer than any others; because of this it seems more likely that this was a nineteenth century addition to the weapon (Figure 1).

Given the proportion of swords from bogs – around 25% of the total – it seems strange that we have so few organic hilts from find circumstances which would have favoured their survival. It is possible that the hilt plates, rivets and pommels were removed, perhaps to be attached to a new or different weapon. In this case, they may have been considered as being as equally valuable, or even more valuable than the swords themselves, either because of the material from which they were made or their associations with individuals or groups of individuals. Conversely, it may have been thought that they did not have the same magical significance that the bronze of the sword possessed when offered to the earth. In either case they were treated differently from the metallic sword blade.



Figure 1: Sword Hilt from Muckno, Co.Monaghan



Figure 2: Sword hilt from Mullylagan, Co.Armagh

From a later period, but of note here as it may indicate the survival of an ancient tradition, is the recently discovered seventh century AD Anglo Saxon hoard from Staffordshire. This was composed not of swords but sword fittings (Leahy 2009). These had been methodically removed from iron and steel swords and were probably war booty, captured perhaps from Northumbrian armies, and then buried near Tamworth at the heart of the Mercian kingdom. Accounts in Anglo Saxon literature such as Beowulf (Heaney 1999) stress the importance of collecting and burying retrieved booty as a signal of victory. Some of the fragments are inscribed, indicating that the attached sword had been personalised before it had been taken apart by the victors.

A number of horn or bone hilts are also known from Middle Bronze Age Irish dirks and rapiers, such as Shower, Co. Tipperary (Burgess and Gerloff 1981 no 116) or Glack, Co. Donegal (Burgess and Gerloff 1981 no.204). The preservation of organic material attached to bronze is obviously dependant on the soil conditions within which the weapon was buried. Both the Irish examples have come from bogs in circumstances which would appear to have favoured the survival of organic plates. No wooden hilt plates are known for any Irish swords or apparently, rapiers. This may be because of the perceived value of the hilt plates as suggested above. In this case wood may have been considered as a more utilitarian material unsuitable for a hilt designed to display the wealth or status of the owner. Another reason may be that, in practice, most woods, especially softwoods, would be difficult to fashion into the curved shape of swords shoulders because this would involve working across the grain, creating a danger of splitting. Some hardwoods would be more suitable; apple or box, for example, can more easily be carved into delicate shapes, though not as easily as bone or horn.

No swords with cast bronze hilts have been found in Ireland, although there are some rapiers, for example from Beleek in County Fermanagh (Burgess and Gerloff 1981 no. 706), so this clearly indicates that the technique of hollow casting was used or at least known about in Ireland. These hilts were not solid but cast hollow, apparently as an addition rather than an integral part of the original casting. The technique can be clearly seen where the tang is visible, such as a sword from Yorkshire illustrated in Colquhoun and Burgess (1988, no.593). There are more swords with cast hilts in

Britain, from early examples such as the Ambleside hoard (Colquhoun and Burgess 1988, nos. 17 -19) to later northern British swords with heavy Ewart Park type blades and 593-595: 599-600). While continental (Colquhoun Burgess nos. Vollgriffschwerter (such as examples which can be seen in Harding 2000, 276 fig. 8.2) normally have ornate, decorated hilts, later British examples are characterised by plain hilts and mushroom like pommels (Colquhoun and Burgess 1988, nos. 593 to 602). The presence of a splayed terminal in itself suggests the attachment of a pommel. One Scottish sword with an organic hilt from Aird on the Isle of Lewis clearly has the top of the wooden hilt plates shaped to take a pommel (Colquhoun and Burgess 1988, no.587). It seems therefore highly likely that organic (bone or wood) pommels of a similar style would have been fitted to all swords in Britain and Ireland.

All hilt plates were attached to the metal hilts by bronze rivets, circular in cross section. These vary in size, generally decreasing in diameter over time from as much as 4mm on Eogan Class 1 swords to around 2 mm on Eogan Class 5 and 6 swords. The latter are normally described as pin rivets (Figure 3) and sometimes have decorative dished heads. Most rivets are slightly dished where they would have been gently hammered to hold the hilt plates in position. The size of rivets is obviously related to the size of the holes in the hilt. Smaller holes would generally improve the inherent strength of the hilt, so it is feasible to see this development as a technological advance.



Figure 3: Pin rivets on a sword from near Athlone, Co. Westmeath

It is possible to visualise a finished Irish sword of the Late Bronze Age, the recently acquired proud possession of a veteran, or perhaps aspiring, warrior. The new weapon would have had a sharp, polished blade, a carved organic grip riveted to the cast hilt, and a mushroom shaped pommel. It is quite possible that the hilt may have been inlaid, coloured or otherwise decorated to show the status or taste of the owner. The rivets would have been made into a decorative feature, perhaps again highly polished or just kept bright by constant handling.

5.3 THE SWORD AS WEAPON

In this section the archaeological and experimental evidence for the use of swords as weapons, both in Ireland and elsewhere, will be analysed. There are two main areas of research to be considered here. The first is the evidence we have for the status and nature of warfare in Irish Late Bronze Age society; that is, what people fought about and over. The second is how the sword was actually used as a weapon. The latter needs to be thought about in two ways – how the sword was actually held and managed, and how a warrior would use it with the other weaponry available in the prehistoric arsenal.

5.3.1 The Nature of Warfare and Conflict in Late Bronze Age Ireland

What should we understand by the terms 'warfare' and 'conflict' when applied to the Late Bronze Age? I use the word warfare to describe a group action with some socially cohesive direction; what Ferguson (1984, 5) defined as 'organised, purposeful group action, involving the actual or potential application of lethal force'. Conflict is best seen as a less fluid concept and, while still involving violence or the threat of violence, is not organised. Put into this context, warfare is organised conflict, normally on a large scale. I will argue that weaponry in the Late Bronze Age was used more for conflict than warfare.

The very fact that we have a number of substantial artefacts specifically designed as weapons indicates that conflict was present and the damage to these weapons suggest they played a role in conflict whether implied or real. Keeley (1996, 65) in a study of

war before civilisation has suggested that the most common form of conflict in what he terms 'primitive warfare' (a loaded term in itself) were raids or ambushes. Such a raid, and its tragic repercussions, form the basis of the Tain (Kinsella 1969) the Irish epic tale involving the search for and capture of a famous Bull from Ulster. This was not written down until the twelfth century AD, though the lack of any Christian or classical references suggests it belongs to what was then a distant pre-Christian past, whether Iron Age or even possibly Late Bronze Age.

Both the Irish tales and classical Greek sources make much of the set piece duel between chosen champions as a normal part of in place of inter-tribal relationships and conflict. There are also other aspects of what we might call directed violence – revenge killings, hostage killings and so forth. I suggest, therefore, that when we consider swords being used we should imagine either individual combat, with pre defined rules, or spontaneous use as part of a surprise attack (or defence), or small scale battles (a lot of shouting and build up, but very little action) or brutal execution. What we should not be thinking about are large battles with massed ranks of swordsmen tasked as part of a wider scheme with a purpose. We should not, therefore, be thinking of battlefields but of scenes of conflict. This is more like Newcastle City Centre on a Friday night with numerous fights born of petty vendettas and jealousies than the Battle of the Somme. Osgood and Monks (2000, 8) summarise it usefully: 'In many instances warfare could be argued to be a part of everyday life, a form of social interaction just like trade and exchange, marriage and feasting.'

While Bronze Age specialists have had no issues with the idea of organised warfare in that period, archaeologists more used to the study of the Early Iron Age of Britain and Ireland have retreated somewhat in recent years from the idea of conflict as a driving force in society. In its place has been put forward the concept of a largely peaceful, egalitarian, agricultural population (Hill 1995). This is tied in with the view of hill forts as being more about prestige and symbolism than defence. However, hill forts as we generally view them have their origins clearly in the Late Bronze Age, clearly seen in Ireland at such sites as Haughey's Fort (Waddell 2000, 215-218). Their development has been discussed elsewhere; here, it is necessary to point out that the concept of a 'bloodless' Early Iron Age has been challenged (James 2007).

5.3.2 Using the Bronze Age Sword

Middle Bronze Age rapiers generally have a narrow, tapered and pointed blade well suited to thrusting, rather like an elongated dagger. Thus they are clearly intended to be stabbing weapons, designed to incapacitate an opponent primarily by the use of the point. The grip or handle is riveted to the blade itself rather than a tang, leaving the grip more susceptible to breakage if the rapier is used as a slashing weapon, as a slashing or cutting action would have the effect of putting stress on the handle. The distribution of the weight in both rapiers and daggers is biased towards the hilt. Burgess and Gerloff (1981, 113) believed that the demise of daggers and rapiers was one of the casualties of the changing fashions and technical innovations of the Penard Period at the start of the Late Bronze Age in Britain.

By contrast with rapiers, Late Bronze Age swords from the Ballintober type (Eogan Class 1) onwards have wider blades with a hilt integral to the blade casting. These Irish Ballintober (Eogan Class 1) swords are leaf shaped, with the widest part of the blade just over a third of the way between the point and the hilt. These blades are potentially dual purpose, in that they can be used for thrusting and cutting or slashing. However, in my experience, as slashing weapons they feel remarkably clumsy when compared with the more common and later swords of Eogan's Class 4. These latter weapons have the balance (though not necessarily the weight) concentrated at the widest point of the blade, allowing the swordsman to make a cleanly balanced sweep.

There are, then, two main actions involved in using a sword as an offensive weapon. The first is the thrust, using the point of the weapon to puncture the opponent's flesh or armour. The second is the slash, using the edge of the weapon to slice through the opponent's body. The length, shape and weighting of the blade is therefore of fundamental importance in providing the swordsman with a weapon of the required characteristics. Unlike some more recent types of steel swords, prehistoric weapons were two edged, allowing the swordsman to make use of either side of the blade. Most swords however are not exactly symmetrical, and the unequal wear visible on parts of the edges of some swords suggests personal preference in the use of any weapon.

Molloy's experimental work has suggested that the main value of the slashing action of the swordsman is when he draws back the weapon towards him through the flesh of his victim. As he does so the curve of the leaf shaped blade cuts deeper causing maximum laceration (Molloy 2007, 107). The pommel, and any attachment loop, would stop his hand from losing the grip of the sword. The length of the sword has a bearing on how well this could be done, and how adroitly the sword could be handled. The longer the sword, the greater its reach and the arc of the cut; the downside of length is that the weapon becomes more unwieldy to handle.

Some commentators have stressed that the move from rapier to sword and subsequent changes in the size, shape and weight distribution of the blade throughout the Late Bronze Age should not be considered as a straightforward typological progression towards improvement in design and function. To Clements (1997, 176) 'each sword and manner of use was particular to the conditions it was devised for and to the user's own preferences'. Molloy (2007, 104) sees sword development in terms of local responses to introduced weapons, and does not view the introduction of the leaf shaped sword as a revolutionary act per se. This contrasts dramatically with the view of archaeologists from previous generations, who viewed the sword as dramatic evidence for the introduction of assertive new peoples or radical technological change. R. Macalister, for example, wrote in the first part of the twentieth century of the 'Sword People' with their 'invincible energy' invading Ireland (Macalister 1928, 73); he used the bronze sword to define the aggression and Leitmotif of a complete tranche of Irish prehistory.

Lastly, I have assumed throughout that swords were primarily weapons and that the majority were used as such, if only for short periods. The converse view is that they were intended primarily to indicate status and prestige. Bridgford's examination of the edge damage clearly visible on a sizeable proportion of Irish swords concluded 'It is clear that almost all the swords were of a suitable design and adequately manufactured to be useful as weapons and, from the damage exhibited, that a large proportion were physically used, most probably in combat.' (Bridgford 1997, 113).

5.3.3 Getting a grip

How were the swords held? One feature that immediately differentiates these Late Bronze Age weapons from swords of the Iron Age and later is the lack of a wrist guard protecting the user's hand from slipping down onto the blade. This seems odd as we are so used to seeing this feature on modern weapons. It does however carry on from what we see on Middle Bronze Age rapiers in Ireland and Europe with their sloping shoulders. The idea of a wrist guard was certainly known elsewhere in the Bronze Age. Mycenean Bronze Age swords show a development from Types A to C, all of which have upward sloping shoulders providing protection to the hand, to the sloping shoulders of later types apparently influenced by Naue II swords (Wardle 1997, Figure 22: Molloy 2008). Naue II is a widespread type which was introduced to the Aegean from Europe in the closing centuries of the second millennium BC (Osgood and Monks 2000, 125) and appears to have almost superseded local development of weapon types.

The reason for the narrow, rounded shoulders is tied in with the method of holding the sword. The most comfortable way, in my experience, is by gripping the hilt with three fingers, and placing the forefinger and thumb on, or across, the ricasso notches at the top of the blade. This grip, with the thumb across the ricasso, is illustrated on a replica sword in my possession (Figure 4). This practice steadies the blade, much as a traditional method when using a wood saw is to place the forefinger over the blade, in order to steady the cut. It also allows the swordsman a long, flexible reach, as it takes account of the flexibility of the wrist. Conversely, having a wrist guard in place puts the grip more at right angles to the line of the blade and lessens the reach and stabbing capabilities of the weapon. Kristiansen (2002) has suggested a slightly different grip, with the thumb and forefinger meeting over the shoulders rather than the ricasso. I find this grip uncomfortable and inflexible, largely because of the presence of the pommel which restricts the movement of my wrist. It seems reasonable to assume that the hands of men in the Bronze Age, used to heavy physical work, would be no smaller than my own and probably were larger. I would count my hand size as average.



Figure 4: Suggested sword grip

Kristiansen (2002) also found that when he attached a leather strap to the hilt, this provided a more secure grip and he was able to create a greater force in slashing movements. These loops would also keep the sword securely in the user's possession, rather like that on a 'traditional' police truncheon used in Britain until the 1990s. My own experience in the Police service is that such loops are valuable features either to stop an assailant knocking it out of the hand or to stop it being simply dropped during movement. The type of grip used is illustrated on a truncheon (Figure 5) and a replica sword (Figure 6). The pommel on the Bronze Age sword would have served to keep this loop in place; what started as a small practical feature on daggers may thus have grown into a decorative (and unnecessarily large) feature on swords.



Figure 5: Police truncheon grip with attached leather loop



Figure 6: Sword grip with attachment loop and thumb on ricasso

Irish swords vary greatly in length, from under 450 mm to over 700mm. A significant number are noticeably shorter than those from Britain. A longer sword is not always an advantage over a shorter one. The short sword or *gladius* was the sword of choice for Roman soldiers and gladiators for much of the Empire. What determines the most

effective and useful length for a sword? Coulston (2007, 42) has argued that the gladus was more compact and less reliant on momentum than a longer version. A longer sword, the Spatha, became more popular during the later empire with cavalry and charioteers.

5.3.4 The Complete Fighting Man.

Swords were not the only weapons available to Late Bronze Age warriors. Images carved on the stone Stelae of southern Europe consistently show the warrior's equipment to comprise of sword, spearhead and shield (Harding 2000, 286, fig. 8.4). In addition many also show bows and arrows, armour, what appear to be chariots, and mirrors. We have swords, spearheads, and wooden and leather shields from Ireland (Waddell 2000, 241, fig. 103). Such organic shields may have had an offensive as well as a defensive role. Roman soldiers were trained to thrust the shield forward horizontally at face level in order to catch the opponent off balance. This would then allow the assailant to land the killing blow, provided he could reach the victim. The downside is that he would be undefended himself. The length of the sword compared to the size of the shield would therefore be of some importance. Whether bronze shields, made from sheet bronze, were used in conflict situations has been discussed most recently by Osgood (1998, 8-11). Coles (1962, 185) believed they were designed primarily as ritual or votive objects, an opinion echoed by Bridgford (1997, 113). It seems unlikely that the sheet bronze used would have survived many blows from a bronze sword or spearhead.

Modern police public order training is of interest here as the shields used are designed primarily to deflect blows and missiles and are thus defensive. I have undertaken such training and it is probably closer to the reality of Bronze Age warfare than modern military training which is concerned primarily with the use of and threat from firearms. Training and tactics are subject to national guidance (ACPO 2010). Police shields fall roughly in to three types. The first two are rectangular shields used mainly in conjunction with other shields in much the same way as the Roman Army would form and link shields for defence. The second, and of relevance here, is a smaller, lighter, round plastic shield, similar in size to those made of wooden and leather of

Late Bronze Age date. These are used by officers who need to be more mobile, mainly supervisors and 'snatch' teams designed to move forward of the other officers, arrest troublemakers and then return to safety behind the large shields. In order for the shield to be used as a defence the officer has to be aware of where the danger is and move quickly to deflect it. The trade off is that of weight and manoeuvrability against more complete protection. Use of a sword in connection with a small shield would be much the same, in that the protection offered is minimal and so the shield would need to be used with great skill *in conjunction with the sword* to be effective.

Spears were a well attested part of the armoury of the Late Bronze Age warrior. There are many hundreds of spearheads from Late Bronze Age Ireland. They are also known from throughout western Europe where their use in warfare has been well documented. Spearheads have been found embedded in human skeletons. At Over Vindinge in Denmark, a man in his 50s was found with a bronze spearhead embedded in his pubis. New bone had grown around the spearhead, so this was an injury he had survived (Bennike 1985; Osgood 2000, 21). At West Littleton Down, Tormarton, Gloucestershire, two skeletons were found and excavated in 1968 in advance of a gas pipeline. One had the fragments of two spearheads embedded in the spinal cord and pelvis, while the other had a hole in the pelvis apparently caused by a spearhead. These two young men, aged around nineteen, had been placed without apparent ceremony in a ditch or pit; two further bodies were found in a subsequent excavation in 1999 (Knight, Brown and Grinsell 1972: Osgood 2000, 21-22). An earlier find from Dorchester on Thames is that of a human skeleton where the pelvis had been pierced by a triangular bladed spearhead which had broken off in situ. Such was the force of the blow that tip had bent (Osgood 1998, 21). It is quite possible that spearheads were intended to break off within the body of the victim, and likely therefore that the wooden spear shafts were designed to snap following impact.

Fighting with a sword *and* spearhead would appear to be difficult, or at the least impractical. Spears can be thrown or used at close quarters, and would have been more expendable than swords, so it is most likely they too were used with a shield, while perhaps the sword stayed sheathed until closer combat became necessary. Later Irish sources called the warrior the *gaisced*, a compound of the Irish word for spear *gae* and shield *sciath*, suggesting that, by the end of the first millennium AD at any

rate, spear and shield was the recognised basic outfit of the fighting man (Mallory and McNeill 1995, 156).

Up until now the implication has been that the warrior fought on foot, although chariots have been mentioned in connection with their appearance on the stelae of southern Europe. Did Late Bronze Age warriors use horses? Evidence from Ireland regarding the use of two wheeled carts or chariots in conflict is sadly lacking (Waddell 2000, 275). Neither is there any evidence to connect the use of swords with horse riding. It is likely that the origins of combat warfare on horseback go back to the ninth century BC in eastern Anatolia and northern Iran and that the riding of horses did not become a significant feature of warfare in mainland Europe until, at the earliest, the eighth century BC (Drews 2004, 147). Such a date would put us right at the end of the Late Bronze Age in Ireland. The earliest definitive evidence for the use of horses to pull transport belongs to the 'harness hoards' with identifiable horse bits which are an Iron Age feature (Cooney and Grogan 1999, 196).

Our twenty first century romantic view of real and fictional warriors of the past invariably places them on horseback. There are three advantages to warriors on horseback; firstly they are very mobile, secondly they are impressive, and thirdly galloping horses are frightening. From my own experience, having taken part in riot training with horses, the power of a horse charge is impressive. I have moved out of the way (very quickly) to allow horses through. Yet the power of a horse charge is quickly spent. Once through they have nowhere to go. A failed charge is wasted energy. Fighting from a horse has the advantage of momentum and little else. An injured horse and dismounted rider is an easy target. We should not consider that warriors on horseback are superior to those on foot. They just look better.

5.3.5 Comfort and Style

It is likely that a warrior wore his sword throughout the day and night as a symbol of prestige and to stop it being taken from him. It would therefore have to be carried in a reasonably comfortable manner yet still be easily accessible and, perhaps most importantly, visible. Irish bronze chapes, which would have been attached to the base of scabbards, were catalogued by George Eogan (1965) in the Sword Catalogue.

These scabbards have not survived in Ireland as they would have been made of leather or even wood. They would most likely have been attached to a waist belt or worn suspended from a loop around the shoulders. Wooden scabbards of Middle Bronze Age date are known from Danish barrow burials (Figure 7).



Figure 7: Middle Bronze Age wooden sword scabbard from a barrow at Støre Køngehoj, Jutland, Denmark (National Museum of Denmark)

5.3.6 Just being a Bronze Age swordsman

Putting flesh onto the bare bones of our Late Bronze Age Irish sword carrier is tricky indeed. Was he part of a warrior aristocracy, or perhaps a member of an entourage of adolescent 'hangers on', or possibly a hard working farmer destined to take up arms only at the times of year when agriculture made fewer demands? Garcia (2009) has suggested that access to swords in Late Bronze Age Iberia was restricted to a select few and that war as an activity was 'frequent and highly valued'. There are perhaps four times as many swords from Ireland than Spain and Portugal; these have been recently catalogued by Brandherm (2007). Does this mean there were more warriors in Ireland than Spain or Portugal, or that swords were carried by a different group within society, perhaps of lower status? Or is the distribution and the numbers known to us merely a reflection of the circumstances of recovery of these weapons thousands of years after they finished their lives?

Excavations at Flag Fen in Cambridgeshire over three decades have produced numerous bronzes, including swords, from the periphery of what seems to be an unexceptional Late Bronze Age settlement. Asked by a reporter in the early days about the value of a bronze sword, Pryor equated it to an anti-aircraft missile. Because of the quantity of bronzes he has unearthed within a limited area, he now reckons

'most tribal warriors could have possessed a bronze sword and spear' (Pryor 2003, 287). This could put our warrior as the prehistoric equivalent of the Kalashnikov toting gunman of contemporary central Asia or Africa. At the end of 2009 the price of a Chinese made Kalashnikov in Afghanistan was as little as \$150, perhaps three months salary for an Afghan (Hodges 2009). The price goes up and down depending on demand and availability; perhaps something similar was happening in Late Bronze Age Ireland with the bronze sword as the Kalashnikov of its day.

5.4 CONCLUSIONS

A sword pulled out of the mould is little more than a rough, ragged blank, ready to be polished and sharpened, ready for the hilt plates to be added, ready for the whole to be personalised and therefore belong to an individual. Such a journey to reach that person may have involved sea or land crossings. This journey may in itself become an auspicious part of the life of the sword and involved a wider community of seafarers, based on coastal areas and islands. It could equally have encompassed a journey made by a member of an elite anxious to prove his worth. Whatever the history of any particular weapon, it is likely that the journey it made was of importance to its story.

The possession of a bronze sword must have acted as a visible and recognised symbol of status in Late Bronze Age Ireland. That status would have been obvious wherever the swordsman travelled, as the sword, or at least the hilt or the scabbard, would be on constant display. Its owner would be practised in its use, yet, to avoid damage, would use it sparingly. It may also have indicated what tribe or family the owner belonged to. Together with his sword its owner would also have a spear with spearhead and a round shield made of wood or leather. Together these formed the accourrements of a warrior, though whether this was a full or part time occupation is impossible to tell. We have no evidence that swordsmen fought on horseback in the Late Bronze Age of Ireland.

To the modern eye Irish Bronze Age swords, with their short hilts and rounded shoulders, look strange. Once fitted with hilt plates and a bone grip, the easiest way to hold these swords is with the thumb and forefinger over the shoulders, their tips resting either side of the blade in the *ricasso*, the notch at the top of the blade. This gives the swordsman an effective stabbing as well as a slashing weapon. It is possible that a strap, secured by the pommel, would have helped with the security of the grip. The design of these weapons persisted in western Europe over five centuries, so we can assume that, in practised hands, they were efficient and desirable weapons.

6. THE DEATH OF THE SWORD

'The River Galliv (Galway) was dried up for a period of a natural day; all the articles that had been lost in it from remotest times, as well as its fish, were collected by the inhabitants of the fortress, and by the people of the country in general.'

Annals of the Four Masters for 1178 (O'Donovan and Ryan 2011)

6.1 INTRODUCTION

At some stage the life of a Bronze Age sword came to an end. It was no longer used for its primary purpose, as a weapon. For many, perhaps most swords, this meant what we might, through twenty first century eyes, view as a symbolic burial. For others, it meant being broken and the base material from which it was made, the bronze, being recycled and cast into new weapons and tools. Throughout the Late Bronze Age vast numbers of bronzes, including swords, were 'buried' - placed or deposited into the rivers, lakes, bogs and soils of Ireland. There they remained until chance or deliberate search led to their recovery and transfer to places above ground into a radically changed world oblivious of the original reasons for their burial. Some ended up as curios in local farmhouse kitchens, or passed into the hands of local dealers in antiquities, or were melted down; others found their way into the hands of antiquarians and collectors, their provenances forgotten or imagined

It is fortunate for archaeologists that bronze survives remarkably well when placed in the ground. Had all the swords been melted down and recycled, then we would not have the range of artefact types that covers the whole of the Late Bronze Age. We have the practice of sword 'burial' to thank for this recovery of the hundreds of known swords from Ireland. What we are unable to tell is what proportion of all the swords made during this period were buried, and what proportion recycled. How many of those deposited in the ground have been recovered (and lost to knowledge through not being recorded) and how many have yet to be recovered must remain a totally unknown quantity.

There is no known and reliable direct association of bronze swords with human burial in Ireland. The tradition of burying weapons with individuals as grave goods in marked or unmarked graves did not extend to Ireland. Instead there was a different tradition, which stretches back into prehistory, of placing complete or broken weapons and artefacts into significant locations within the prehistoric landscape. This meant they were placed either in wet places or in the soil, often beneath or alongside stones. Such a deposition may have been intended as temporary or permanent. The reasons for believing this to have been the case are discussed below.

The condition of the sword at the time of deposition appears to have been of importance to those people involved in the process of the 'death'. By this I mean whether the sword was complete or fragmentary, and whether it had been damaged in any way. The extent of damage is significant; in particular, whether it was such as to put the weapon beyond use in the form in which it was made, i.e. as a sword. The evidence for this, the process, and the potential reasons and implications are discussed below.

6.2 DEATH AND THE LANDSCAPE

This section is focussed on the sword as an artefact placed into the landscape. There is another way at looking at this, and that is trying to envisage the landscape as the living backdrop to the many human stories and tragedies which took place during the Late Bronze Age, which must have been the catalyst for the deposition of these weapons. This section will therefore also include recent work using modern technology such as GIS in an attempt to visualise the prehistoric landscape of Ireland, particularly in relation to rivers, bogs and waterways. Since the publication of Eogan's Catalogue of *Irish Bronze Swords* in 1965, and especially over the last two decades, there has been increased interest in the way people viewed the landscape in the Bronze Age. This is particularly so in relation to the choice of places for the deposition of particular types of artefact.

6.2.1 The Landscape of Ireland

Ireland is a wet country. More than any other part of Europe, it is water which defines and explains the landscape. The prevailing westerly winds bring precipitation throughout the year, but its position at the apex of the Gulf Stream means that almost all falls as rain, and snow is rare. The driest parts are in the east, especially around Dublin, making the east coast the part of the island most suitable for modern cereal cultivation. Upland areas lie mainly around the coast; the mountains of Kerry and Cork in the south, the Wicklow Mountains in the east, and the Mournes and the Sperrins in the north. To the west the hills of Connemara and Donegal catch the Atlantic rain. The rivers draining the vast areas of raised bog in the Irish midlands (the peat commercially used as fuel), reach the open sea only with difficulty. The Shannon flows slowly, widening into loughs as it picks up numerous smaller rivers. In the north, rivers from the drumlin belt such as the Blackwater and the upper Bann flow into Lough Neagh, or westwards to the Atlantic, like the Erne. South of the Shannon catchment area, shorter rivers such as the Barrow and the Liffey circumvent coastal hills to drain into the sea. Thus the centre of the country acts like a huge basin, and water escapes only slowly.

6.2.2 Depositional Evidence

This section will examine the evidence available relating to the circumstances surrounding the discovery or recovery of bronze swords in Ireland. This comes from information recorded concerning the recovery of swords and catalogued by Eogan in two publications (Eogan 1965; 1983) and through this research.

Each sword, as we have seen, had its own lifecycle, and consequently death, to be recovered or retrieved many years later. In common with other bronzes swords were placed beneath the surface, out of sight or perhaps visible in shallow water. In terms of recovery, out of the 700 swords in this catalogue, only a few were found under modern excavation conditions. These are discussed below. The vast majority of swords have either a vague provenance or none at all, a problem which also extends to

other types of bronzes such as socketed axes (Eogan 2000, 90). It is impossible to establish the veracity of the information provided with every weapon. It is probable, however, that any sword with a river provenance is reliable in that it is most likely to have come from the named river though its exact findspot is not discernable. Non river finds, generally, cause more problems; sword E623, for instance, said to have been found at 'Tara', is likely to be an invented provenance designed to appeal to a interested Victorian antiquarian. Contextual information is, therefore, sadly lacking for the majority of swords.

To summarise, there are two distinct sources of recovery:

River finds, either through chance, as the result of systematic dredging or, in more recent times, scuba diving.

Agricultural finds, normally through peat cutting or drainage work.

In addition, a further category which can include either of the above covers archaeological involvement:

Finds subject to excavation. This covers swords found during planned excavations, and chance finds where the find site has been excavated within a short while of discovery.

6.2.2.1 River finds

These form the single major category of sword finds. Total figure yet to be identified, but O'Carroll (1986) gives the figure as 37% of all contexted swords. The majority have been discovered as a result of river dredging.

The history of dredging in Ireland has been examined in some detail by

Lorraine Bourke (2001) and can be summarised here insofar as it relates to sword

discovery. From the nineteenth century onwards rivers were dredged to improve

navigation, involving the deepening of often narrow channels and the removal of shallow fording places and small islands. This necessitated the mechanical removal of vast quantities of river silt and the transportation of this material to other locations, normally on the river banks. Work started in earnest in 1831 as a result of the establishment of the Irish Board of Works, a body intended to improve the navigation of Irish rivers and expand the use of steam boats for trade on inland waterways. In addition to the navigation benefits almost a quarter of a million acres of land were exposed to flooding and controlling the flow of water was seen as both an essential safeguard and commercial sense for the expansion of agriculture. In addition, drainage schemes provided employment for the destitute during the disastrous famine of the 1840s.

While many rivers were subject to dredging operations during the first half of the nineteenth century, the main effort was focused on the Shannon. In 1843 the Shannon Commissioners – a separate body from the Board of Works - concentrated work on the shallowest of all the fording points on the river at Keelogue, Co.Galway. Over two metres of alluvial material and the glacial clay beneath was removed, the latter by blasting with gunpowder. Four swords in the NMI from the Wilde collection are recorded as having been discovered during this operation (E177, E178, E179, E510).

The lower Bann is the only river to flow out of Lough Neagh. Between Toome and Coleraine it flows northwards from lough to sea, draining much of modern Ulster. Between 1847 and 1861 the McMahon scheme attempted to control the level of Lough Neagh to alleviate regular flooding and to improve navigation of the river. Natural barriers to the flow were removed or lowered at Toome, Portglenone, Lough Beg, Portna and the Cutts, just south of Coleraine. Further dredging operations, instigated to complete the nineteenth century work, took place between 1930 and 1942. Bourke (2001, 23) lists 114 Bronze Age artefacts from the lower Bann. There are around 40 swords recorded as having been recovered from the lower Bann. This is around 12% of the total figure of swords from Ireland with a named provenance (named provenances total around 370, or about 55% of the total number of swords in this catalogue).

Following independence in 1922 dredging activity intensified not only in the Shannon but also in a number of smaller rivers in the fledgling Irish Free State. The years 1930 to 1934 saw work concentrated at Killaloe, Co. Clare, historically an important crossing place of the river where Brian Boru was to build his palce in the tenth century AD. Over 300,000 tons of material was removed from the river bed and dumped in Lough Derg. Some years previously Adolf Mahr had been appointed as Keeper of Irish Antiquities at the National Museum in Dublin (see History of Research). He took a close interest in the work at Killaloe and saw to it that arrangements had been made for workmen to be adequately remunerated for handing their finds to the museum. Two swords (E113 and E539) come from Killaloe during this period.

Mahr also maintained close contacts with the engineers working on the River Barrow, which rises in the Slieve Bloom mountains in Co.Laois and finds its way to the sea at on the south coast. Above Athy, Co. Kildare, the river flows slowly through a wide plain prone to seasonal flooding. Comprehensive dredging in the river and some of its tributaries took place between 1926 and 1934, when 42 bronze artefacts were retrieved, of which six were swords now in the National Museum (E8, E28, E196, E97, E189 and E493) These34 can be added to the two discovered during nineteenth century dredging, one in Dublin (E27) and one in the British Museum (E95).

The Bann Dumps at Kilrea are made of material from the 1930s dredging discussed above. This had subsequently been planted with conifers. Systematic investigation of this riverine spoil by a team from the Ulster Museum in the 1990s produced the lower portion of a Late Bronze Age sword (E942) (Bourke 1994: Bourke 2001, 18). This involved the use of metal detectors and some mechanised stripping of the material. Organised scuba diving at places little touched by dredging has produced some worthwhile finds. Four swords from the Shannon – three complete and one fragmentary – are now in the National Museum, nos. E903, E905, and two as yet undrawn. These were all found during the 1980s.

Eogan (1983) mentions one, possibly two hoards as having come from rivers, though neither contains a sword. Two spearheads from Belturbet, Co. Cavan (Eogan 1983, 62, Hoard no. 49) may possibly have come from a river, while a bracelet hoard from

New Ross, Co. Waterford (Eogan 1983, 164, Hoard no.145) is stated to have been found 'in the bed of a small river'.

6.2.2.2 Agricultural finds

This category consists of swords recovered through a number of activities relating to agriculture such as drainage or land improvement. It also includes finds made during turf cutting. The cutting of peat for fuel is common across much of Ireland, especially in the west and the Midlands, where it takes now place on a commercialised mechanised basis. It is not always possible in the literature to separate turf cutting from other farming activities such as drainage or land improvement. The reclamation of bogs or boggy land for grassland has been a constant aim of improving landlords and tenant farmers for over two hundred years, and many find circumstances simply state that the sword was found 'in a bog'. Taking the two categories together, 36 swords out of 370 belong to this category...about 10% plus of provenanced finds.

While it has always been possible for local collectors or museums to keep a watchful eye over planned river dredging in a search for swords and other objects of interest, it has been far more difficult to do so for the chance finds from everyday agricultural activity. Consequently, although swords in this category are more likely to have been retrieved from the actual places where the swords were placed in prehistory than is the case with rivers finds (see below), the actual details of recovery may be open to misinterpretation.

6.2.2.3 Finds subject to excavation

Of the 700 plus swords from Ireland only a handful have been recovered under conditions where an archaeologist has had some involvement in the process, often belatedly. At first glance this is surprising considering the amount of excavation that has taken place in the 1990s and the first few years of this century; even more so when the nature of much excavation in the Republic has been to examine huge swathes of landscape in advance of road development. The solution to this conundrum

must lie in the observation that swords were placed in rivers and wet places on the edges of settlement, or specific places away from habitation, the very places that roads and development tend to avoid. They were not placed amongst houses nor randomly in the landscape. Consequently the majority of swords in this category are chance finds subject to excavation after recovery.

In February 2004 a Wilburton type sword (no. 961) was recovered as part of a hoard by a metal detectorist at Tamlaght, Co Armagh. The associations consisted of a plain copper alloy sheet vessel of Jenisovice type, and of central European origin; decorated vessel fragments of Fuchsstadt type, and a copper alloy ring. The discovery was promptly reported to the Armagh County Museum. The site was revisited and the find spot examined by archaeologists from the Ulster Museum very shortly after discovery (Warner 2006; MacDonald and Ó Néill 2009). The landscape here is typical of the terrain around the city of Armagh, consisting of drumlins interspersed with boggy areas many of which have been drained in modern times. Excavation revealed traces of a possible scabbard or sheath beneath the sword, which had been set to rest almost horizontally and lying NNW/SSE. The Tamlaght hoard appears to have been carefully and deliberately placed on the edge of an inter-drumlin bog. In the Late Bronze Age the peat underlying the hoard would have been around 0.1m deep with sedges growing here on top of the peat. The excavators were of the opinion that the objects had been gently pushed into the wet ground from the adjoining dry land. They would then objects would have been immediately taken up when placed in position and quickly vanished from sight. It is possible that a tree root marked the spot.

Tamlaght is only a kilometre away from Navan Fort, the capital of late prehistoric Ulster, which lies within what has been interpreted as a ritual landscape consisting of hill forts such as Navan itself and Haughey's Fort, and wet places such as Loughnashade and the King's Stables (Waddell 2000, 333). The bowl and vessel, imports from Europe, fit in well with the interpretation of Navan as a seat of regional power during the Late Bronze Age with an aristocratic elite able to take advantage of trade links stretching deep into continental Europe.

Further south at the excavated late prehistoric hill fort complex at Rathgall in Co. Wicklow a sword fragment (not yet drawn) was recovered from a pit together with a

small bronze spearhead and a small socketed chisel (Raftery 1973; Becker 2010). The pit lay inside a ring ditch enclosure to the south east of the main enclosure. Within the same ring ditch were three separate cremations set apart from the pit. This is the only confirmed sword or sword fragment with any degree of association with a burial in Ireland. An area to the immediate north of the ring ditch produced evidence for bronze manufacture including fragments of clay sword moulds.

A crannog settlement at Knocknalappa, Co.Clare, was excavated by Joseph Raftery during the 1930s and 1940s (Raftery 1942) and a sword fragment found on the foreshore (no.114). A larger sword (not yet drawn) was found in similar circumstances at Island McHugh, Co.Tyrone, in 1985 (Simpson 1986). This sword was discovered during assessment of this expanded natural island for further excavation following a lowering of the water level in the lake

In 1949 three swords were discovered at Ballycroghan, near Bangor, Co. Down (nos E141, E142, and E143), while a field was being ploughed at double depth (Eogan 1983, hoard no.71). Some days later the site was visited and examined by E.M Jope who was of the opinion that the field was a previously drained marsh and that, taking into account the amount of worked wood found, the site had been a crannog (Jope 1953). An early seventeenth century Clandeboye estate map showed that, prior to land improvement, the area had been marshy. Subsequent excavation by Hodges (1955) produced no structural evidence for a crannog but instead structures which were interpreted as 'cooking places' or burnt mounds. This is interesting as a close connection between burnt mounds and metalworking has been noted in the English Fenlands (Yates and Bradley 2010, 412).

6.2.2.4 Documented associated finds

There are a number of swords found in association with other bronzes in circumstances which have been reliably documented. Eogan (1983) lists 161 hoards most of which have only scant details of discovery. Associated finds of interest are outlined below.

At Boolybrien in Co.Clare a sword tang (no.E112) was discovered in a bog, lying on a gravel layer, and associated with a bronze horn containing socketed axes, rings, a sunflower pin, and what has been described as a chain. Another bog find, two swords with complete blades but damaged hilts (nos E134 and E135) were found some 46 cm below the surface at Carran in Co. Donegal. The Dreenan or Boa Island Hoard, from Co. Fermanagh, was discovered in 1875 during the removal of a large rock in the course of agricultural operations. A damaged and previously repaired sword hilt (no.152) fragment was found with spearheads and socketed axes.

A hilt and upper blade fragment from Park in Co. Meath (E928) was found as part of a hoard in 1974 and published by Eogan (1983,113). The other bronze artefacts recovered were a small chisel, a hollow ring and a sunflower pin. In order to remove a glacial erratic on low lying farmland a mechanical excavator was used to dig a hole along one side of the stone. The scooped material included the hoard. It is quite possible therefore that the hoard had been placed in a pit alongside the erratic which could have acted as a marker. At Cooga in Co.Sligo a sword fragment (E595), two socketed axes and what had been described as a piece of bronze cake were found 'under a rock' on the edge of a cutaway bog during drain making in 1941.

At Blackhills in Co.Laois (E593) a sword was uncovered in 1961 together with a spearhead and socketed axe. All three artefacts were said to have been 'neatly' laid out side by side in a north east/south west orientation in a garden 36 cm below the surface (Eogan 1983, hoard no.95). There is no information about the location or condition of the garden.

The large assemblage of bronzes from Dowris in Co.Offaly was found in the early 1820s and has been discussed by Eogan (1983, Hoard no.119) and Herity (1971). It consists of 185 known artefacts, and was probably even larger. Five are swords. The rest of the material varies from spearheads and socketed axes to ball shaped objects identified as crotals and even a halberd. The earliest references suggest that the hoard was found in a bog but nothing else is known.

A similar problem surrounds the 'hoard' from the Bog of Cullen in Co. Tipperary (Eogan 1983, Hoard no.135). A large quantity of Bronze Age material is said to have been recovered from the 1750s onwards, including four swords now lost but which survive in published illustrations. These however are a small proportion of the 'two hundred' swords claimed to have been recovered here throughout the eighteenth and nineteenth centuries. It is of course possible, indeed likely, that many unprovenanced swords in modern collections come from this source.

More recent finds from metal detector users are conspicuous by their absence. The Portable Antiquities Scheme does not, unfortunately, extend to either jurisdiction in Ireland and, as metal detecting for archaeological material without a licence is, in both countries, effectively outside the law, finders of prehistoric artefacts have not been encouraged to come forward. In addition, in the Republic, archaeological finds are the property of the state, while in Northern Ireland, finders have to report 'accidental' finds to the relevant authorities within fourteen days or risk prosecution.

6.3 DISCUSSION

6.3.1 When and where?

Swords from dredging activity or spoil searching can only be classed as single finds, though they may originally have been deposited in association with other weapons, metal or organic artefacts, or even human bones. As they have been recovered from material removed from the river the exact find spot can never be located. Even if this were possible, the river currents mean that any artefact may have been carried a considerable distance. River currents may also have the effect of grading artefacts and depositing all those of a particular size in the same place, leading to an apparent concentration of artefacts that would be wholly false (Edgeworth 2011, 63). For example, the movement of artefacts with the current may have been stopped by barriers of harder material interrupting the river flow. Such barriers regularly form shallow crossing places, and this could be one reason why so many bronzes ended up at known fords.

This causes a problem, in that, even where we have well documented evidence of a river find, the sword may not have been in the same place as it was 'buried', and there is no way of telling whether it had been deposited singly or with other weapons or bronzes. Where we have reliable evidence of a sword being recovered from a bog or farmland, then, in Ireland at least, the sword is always in association with either another weapon or what appears to be a restricted range of artefacts. These include sunflower pins, spearheads, rings and socketed axes. These have been interpreted as male artefacts.

Turning to bog finds, Becker (2008) has pointed out that many Irish Bronze Age artefacts were buried in such a manner that it would be possible to recover them. In order to do so it is essential that the find spot is marked, either by placing it alongside a natural feature or adding a marker of some sort to the landscape. The point here is that within society somebody, or perhaps a restricted circle of people, knew where artefacts were buried. Placing an object in a bog leaves no unintentional surface traces so such a 'burial' could be discreet (Becker, pers. comm). Conversely, the landscape could also be part of the pageant of display. As such, objects did not always need to be hidden; in second century BC Denmark the Gundestrup Cauldron appears to have been placed on the surface of a dry bog which only later became waterlogged (Kaul 1995). Further, as Becker (2008, 13) has pointed out in relation to bogs, these were not inaccessible empty spaces, but places with a varying landscape both on the ground and in the memories of local people. Such a concept is equally true of mountainous or craggy landscapes, where bronzes can be found deposited beneath rocks or in crevices. It is spectacularly true of streams and rivers, which, as we have seen, define the landscape of Ireland more than anything else.

Becker's work follows on from Needham (2001) who suggested that bronzes may have been placed in the ground without any specific intention, or that the final fate of any bronze may differ from that originally intended. The shallow deposition or marking of position in the landscape allows for a potential change in the life path (a 'rebirth' perhaps) of a sword, for example, as it could be easily retrieved, or it could be left in the ground or water. Thus a sword could be 'buried, or removed from circulation', and then re-used, perhaps on a number of occasions, according to the prevailing circumstances. In this instance the burial does not therefore signify a

permanent 'death' as the sword has not been put beyond further use. 'Death' could be temporary.

Returning to Irish bogs, the concept that access to such a landscape is important can be illustrated by discoveries made during excavation on the trackways and structures associated with the bog at Edercloon, Co. Longford. Here it was found that tracks ran not across the bog complex but instead seemed to converge at points within the bog where there may have been crossroads or even platforms. At regular intervals along the trackways wooden objects were found suggesting deliberate deposition. To the excavators;

'This suggests that the function of these sites was to facilitate movement within rather than across the wetlands, possibly for people coming from several directions to shared spaces.' (McDermott and Moore 2010)

The idea of shared spaces in the bog as man made features connected with deposition is worth exploring. The evidence from Flag Fen (Pryor 2005) Bradley Fen (Pryor 2005) and Must Farm (Knight 2009) is that wooden platforms were made in wetland on the edges of settlements, and in wetland between settlements which would not otherwise have been accessible. These sites lie within a kilometre or so of each other in the Cambridgeshire Fenland, which in the Late Bronze Age consisted of a series of islands separated by water channels and open water. Yates and Bradley (2010, 413), in a study of the same fenlands, suggest that the association of metalwork with causeways may be a widespread pattern throughout the fenland areas of eastern England.

The placing of swords on the edge of settlements in Cambridgeshire can be mirrored in Ireland by the recovery of swords from crannog sites at Knocknalappa, Co.Clare (E114), Island McHugh, Co.Tyrone (not yet drawn), and possibly Ballycroghan in Co. Down (E141, E142 and E143). Here we are again dealing with wet margins on the *edge* of settlement areas being considered as appropriate places for the deliberate deposition of swords. Similarly, the hoard from Tamlaght, Co.Armagh, was found within two metres of the original edge of a shallow bog (Warner 2006, 22) apparently away from any settlement. This deposition of bronzes away from settlements must

account for the fact that there is no record of a sword or sword fragment being found on any of the rescue excavations which have taken place in recent years, despite a number of Late Bronze Age settlement and burial sites being discovered.

The association with water appears to be of general importance. Again, it is worth looking at recent work on the English fenlands by Yates and Bradley (2010). This is a useful study area as it has proved possible to equate many find spots of individual bronzes with prehistoric watercourses. As in Ireland, complete swords seem to be associated with river channels. Sword fragments occur as single finds on dry land, while hoards, especially those of weapons, have been found in bogs or still waters away from the main river channels.

There is another factor that appears to operate in deposition use, in that different zones of the landscape were considered appropriate for different bronzes. In a study of deposition in the river systems of the southern Netherlands throughout prehistory Fontijn (2002, 271) concluded that meanings were attached to both places and wider zones of landscape. In a study of the weapons hoards in Northumberland, Colquhoun (forthcoming) reached similar conclusions. The latter study considered a whole swathe of land in central and mid Northumberland where hoards consisting only of weapons and what can be classed as warrior accoutrements (swords, spearheads and rings) have been found. Outside this zone only three swords have been found, one in the upper Tyne valley and two from the Tyne at Newcastle (Colquhoun and Burgess 1988, nos. 548, 715 and 716). The latter are both Gundlingen C swords and can be confidently placed at the very end of the Later Bronze Age, perhaps when deposition patterns were changing. The distribution of other bronzes, and notably socketed axes, is markedly different, being coastal and in the Tyne valley (Schmidt and Burgess). The inference is that it was not considered appropriate to place bronzes in the ground in certain areas. This is not to suggest that such zones and traditions did not alter. If this view of deposition is correct, it follows that the bronzes we have are those which were not retrieved, either intentionally or because the incentive or need to retrieve them was not there. In short, circumstances had changed. We do not have all the earlier deposited swords and bronzes because many had been returned into circulation; we only have those which were left for whatever reason. We have, in effect, evidence for the final chapter of deposition, which is why we have so many

late Dowris swords in Ireland and late Ewart Park swords in Britain, and why our metalwork record is weighted towards the end of the Late Bronze Age.

Were Irish swords placed into fast flowing main courses or slow meandering backwaters? The evidence suggests that bronzes of any sort were placed in shallow water, whatever the flow. There is, however, an issue to consider here. What did the Bann and the Shannon, the Blackwater and the Barrow look like in prehistory? There is a tendency to view the courses of all pre-industrial rivers as natural waterways, largely unaffected by the actions of the local inhabitants. Recent analysis by Edgeworth (2011) has shown that the picture throughout Western Europe is more complicated. While agricultural activity and deforestation has long been accepted as an important factor in the increase in the amount of soil being carried downstream, it is equally likely that small scale damming and minor river diversions had profound impacts on both the rate and course of river flow throughout prehistory. In addition the placing of timber bridges, weirs, fishtraps and so on would have had an impact, and we have evidence for such structures in Ireland throughout prehistory as far back as the Mesolithic (McQuade and O'Donnell 2007). This suggests that many rivers may have been more subject to change than previously thought.

An important concentration of swords can be seen at Toome on the borders of Co. Antrim and Co. Derry, where Lough Neagh flows into the lower Bann. The programme of dredging which led to so many finds of different periods is discussed above. Dredging was done largely to alleviate the problems of widespread flooding, and involved deepening the main channels of what had been a widely meandering river. One archaeological approach is to examine the distribution of artefacts and compare this with GIS models of the former riverine landscape based on information from a number of sources including LIDAR. This work is part of an ongoing project at the University of Coleraine (McNeary 2010) and it is hoped that the results may be useful for this study of Irish swords.

6.3.2 Why?

Cooney and Grogan (1999, 161) have stressed that deposition was not a random activity and that it must not be viewed separately from other aspects of the archaeological record. It was a deliberate structured activity within Late Bronze Age society and as such took many forms. The rationale behind the placing of weapons into rivers or the ground has been discussed by Bruck (1999). Deposition to the twenty first century mind appears to be a process devoid of any rationality; in the context of production and reuse it removes an article of bronze from circulation, and does not seem to make economic sense. Looking at this activity from a functionalist viewpoint is upsetting. In discussing the deliberate placing of artefacts such as broken querns or animal skeletons within ditches on Middle Bronze Age house sites, Bruck (1999, 337) makes the point that, by jettisoning the concept of ritual that archaeologists have been so used to applying to actions that appear totally irrational, or nonsensical;

'archaeologists become free to explore the possibility that even those activities so often labelled as 'functional' or 'practical' (for example, past subsistence practices) are likely to have been based on a logic for action and a model of the world very different to our own.'

Such a view allows us to place the deposition of bronze metalwork firmly into the sphere of an assumed logic rather than of ritual (by ritual I mean a sacrifice or offering). This theme of a different worldview in the Late Bronze Age has also been investigated by Matthews (2008). He looked at the Danish material and the associations of bronzes with organic materials. Whereas in most conditions these fail to survive, there are some Danish examples such as the hoard from Budense, Zealand, where bronze ornaments have been found in direct association with wood, stones and domesticated animal remains. The hoard is a collection of different materials where each material appears to have had a function, the meaning of which made sense to those people who were involved in its deposition. Rather than being an offering, therefore, the placing of a sword into the ground may signify a direct connection with an earthly event. This may of course be the death of its owner, or it could be the death

of an enemy. It may mark a transitional period in the life of an individual or the changing circumstances of a community.

6.3.3 Bronzes and Bones

There is no dependable record of any Irish sword being found directly with a burial as part of a burial deposit. But were swords placed into rivers with dead bodies as part of the act or ritual of burial? This possibility has been discussed in the past as some nineteenth century articles suggest that some Thames bronzes were found alongside human skulls (Bradley 1988) though not complete bodies. More recently, Mark Knights' work at Must Farm in the Cambridgeshire Fens has led to the suggestion that swords and spears were being placed into the rivers along with corpses. While the metalwork would sink, the corpses would be carried away by the river flow (Symonds 2012, 19). While this is an attractive idea, it is difficult to consider as a regular process which would apply to all sword deposition. In Ireland especially, in places such as bogs where the soil conditions are favourable to preservation, some survival of human remains could be expected in such circumstances.

There are however some recorded associations of human remains with deposition connected with bronzes and bronze working. Placement of skulls in a wetland context in Late Bronze Age Ireland has been discussed by Cooney and Grogan (1999, 146). There is an association of a bronze dagger lodged in a skull from Drunman More Lake, Co. Armagh (Waddell 1984) which may have been part of a complete inhumation. Human skulls were also found associated with the lakeside settlement at Ballinderry, Co.Offaly (Hencken 1942, 17) and a partial skull at the King's Stables in Co.Armagh, which also produced part of a clay mould for a sword. Here, and in the Thames cases discussed above, it may be that the association is not directly with the bronzes but more with the sense of place, in that locations may be considered suitable for the placement of human skulls in much the same way as they were considered suitable for bronzes. Any deposition of skulls, therefore, may not have been contemporary.

6.3.4 Death by breakage

The deliberate breakage of objects prior to deposition has a background extending through the Neolithic into the Mesolithic. For example, stone axes were deliberately damaged and placed in apparently significant locations such as within the 'temple' complex at the Ness of Brodgar in Orkney (ref). Breaking or damaging bronze swords prior to deposition is a common feature throughout Atlantic Europe. The extent and nature of the damage to individual swords is noted in the catalogue. In a previous chapter on the *Life of the Sword* damage caused during use of the weapon was discussed. In practice, this is indicated largely by a number of small nicks along sword edges where the edge has been in contact with another hard object when used with some force. In addition broken hilts, many subsequently repaired, are likely to have been the result of force.

It is however apparent in some swords that the extent of damage sustained is greater than that to be expected during what we may interpret as intended use, either as part of warfare or as part of practice. This means such damage has been done deliberately with the intention of putting the sword beyond further use as a weapon in the form in which it was made. Such damage takes the form of bending the blade and inflicting large notches along the edges, often both together. This can be clearly see on a number of Irish swords such as one example from Knockadoo in Co. Roscommon found in association with a less damaged sword. (E249 and E250). Similar practice throughout western Europe has been investigated by Quilliec (2008). She came to the conclusion that such damage could only be inflicted by a bronze 'craftsmen', that is somebody skilled in working with metals. This puts a bronzesmith at the centre not only of the birth of the sword but also its ultimate death.

6.3.5 Conclusions: Toward a model of Sword Deposition in Ireland

The above discussion has shown that while we have a large number of swords from Ireland, we have preciously little evidence regarding the circumstances in which the majority were found, and, therefore, the circumstances in which they were deposited. Where we do have good, or at the least, reliable, evidence, then there are a number of

common features. These can be compared with the published literature concerning bronze deposition generally in Ireland, Britain and Europe.

The **first feature** is that where we have evidence regarding discovery, swords are generally found in association (although not necessarily close association) with either other swords or a limited range of bronzes. Finding a sword in complete isolation is rare.

The **second** feature is that generally **complete or near complete?** swords were carefully deposited, and normally not at any great depth.

The **third** feature is that some swords were damaged beyond repair, and some were not.

These features will be considered separately below.

The **first feature** is that where we have evidence regarding discovery, swords are generally found in association with either other swords or a limited range of bronzes. We can therefore deduce from this, as a working hypothesis, that it may have not been considered the norm to deposit swords in isolation from other swords or bronzes. This suggestion, as a general feature of western European Late Bronze Age practice, is supported by evidence from excavations outside Ireland.

The **second** feature is that generally **complete or near complete?** swords were carefully deposited, and normally not at any great depth. This is important. It signifies that deposition did not necessarily take the weapon beyond recovery. Some deposits, notably those in shallow water, may have been visible to all. This concept, of careful deposition in water, can equally be applied to the flowing water of river edges or fording places and the still water of such places as bogs, ponds and lakes. Others deposits, marked by stones such as the Park Hoard (Eogan 1983, no.114), may not have been visible but the location may have been known by many and may have had an importance it itself separate from its status as a burial place. That is, the location of itself may be important to people with an intimate knowledge of the landscape. This

suggests that the swords may, in effect, not have been hidden from view or local knowledge.

The **third** feature is that some swords were damaged beyond repair, and some were not. This is in addition to the edge damage visible on weapons which can be taken as part of the 'life' use of a weapon. This damage can be shown in most cases to have been intentional, especially where the sword has been bent. Matthews. 'killing' of the sword takes the weapon beyond recovery from its initial form. While the sword had died, the killing may have been visible to all and it may have been the display of the damaged swords or the knowledge of display that was important.

Swords belong in the Late Bronze Age landscape. There is a proper place for them there, on the edge of land in shallow water, or near water, away from settlement, together with other swords or other bronzes. Carefully laid, grips removed, their placement maintains the order of things.

7. GENEALOGY

7.1 INTRODUCTION

The metalwork phases of the Irish Middle and Late Bronze Ages currently in use were named by Eogan (1964) after some of the major hoards found in Ireland. The three periods which span sword use are Bishopsland, Roscommon and Dowris. The Bishopsland phase has its roots in the Middle Bronze Age and Eogan clearly established its close connections with the 'Ornament Horizon' phase of southern Britain (Smith 1959). He dated it between 1200 and 900 BC. The Roscommon phase followed, spanning the ninth and eighth centuries. Eogan started the final phase of the Bronze Age, the Dowris Phase, in the eighth century and continued it well into the second half of the first millennium, commenting that dating for the end of the period was 'murky' (Eogan 1964, 321). The vast majority of Irish swords can be dated to the Dowris phase.

Dating will be discussed below in relation to each separate type. Here it is worthwhile having an overview, especially in relation to the work in recent decades on radiocarbon dating of close associations with bronze artefacts and subsequent revisions by various scholars which will be discussed below. To summarise, the Bishopsland Phase, contemporary with Penard in Britain, can now be dated to between 1300 and 1150 BC, with the development of the first swords of Ballintober type around 1200 BC. The Roscommon Phase can now be started around 1150 BC, with the first Wilburton influenced metalwork found its way to Ireland in the following century. The first half of Dowris at least can be seen as contemporary with the Ewart Park Phase in Britain, starting around 1000 BC with the introduction of Blackmoor horizon swords which were to have a significant influence on the development of specific Irish sword types. In the half century since Eogan's article was published dating of the period has moved on apace, and it is now difficult to envisage a major time lapse between Ireland and its European neighbours. When the Dowris Phase ended is still perplexing. Eogan stretched it well into the Iron Age, though, as we shall see below, it is more likely to have finished within a century of the end of the Llyn Fawr period in Britain, dated now around 700 BC.

The table opposite shows the Irish periods and the proposed alignment with recent British and continental dating, following on from the work of Needham (1997), Gerloff (2007; 2010) and Matthews (2011).

7.2 TYPE BALLINTOBER

This is the earliest type of leaf shaped sword found in Ireland. The hilt is simple and unflanged, either rectangular or tongue shaped. The rivets for the grip were attached to the hilt either through rivet holes, normally four arranged in pairs, one above each other. Some swords have side notches instead. The shoulders are wide and markedly pointed; beneath there is normally a distinctive and blunted ricasso, sometimes with a notch where it joins the top of the blade edge. Some well preserved swords such as nos. have ricasso bevelling extending to the shoulder points. The blade itself is always leaf shaped, though the length varies considerably from to. The blade cross section is normally lozenge shaped, though a small number of swords have a more flattened midrib with wide bevels (Chelsea variant). On the better preserved swords the edge is always clearly bevelled. Eogan (1965) classified Ballintober swords as his Class I.

7.2.1 Distribution

The Irish swords were mapped by Hodges (1956) and the more recent discoveries in this catalogue do not change the essential distribution. Only one sword, a Chelsea variant, has been found south of the Liffey at Passlands (Monasteravin), Co.Kildare, with the majority coming from the Ulster rivers. They thus have an essentially northern distribution.

The British distribution of Type Ballintober and the Chelsea and Irish variants shows a clear concentration in the Thames Valley, with a scattering of swords from either side of the Bristol Channel both in England and south Wales. An even thinner scatter extends across central England (Burgess 1969; Colquhoun and Burgess 1988; Matthews 2011). Only one sword has been found in Scotland, from the North Rhinns of Galloway in the south west, within sight of the Cliffs of the Antrim Coast (Cowie and O'Connor 2007). There are nineteen swords from France, where they have been

found mainly in valleys of the Seine and the Loire with a couple of examples from eastern France (Gomez 1987, fig 1).

7.2.2 Origins

Ballintober swords were defined as a type by Hodges (1956) who identified that similar weapons to his Irish examples had been found both in France and southern Britain. Typologically they show a mixed ancestry from three sources; late rapiers, other early tang hilted swords, and early flange hilted swords. In effect they are a progression from rapiers already being produced in Ireland being influenced by imported sword types. The leaf shaped blade of Ballintober swords is a new, introduced, development which defines them as weapons with a slashing capability.

The detailed development and chronology of Ballintober swords has been the subject of much debate since Trump (1962, 93) recognised their ancestry amongst the myriad of late rapier types in the Seine valley and suggested that they developed there. Amongst these rapier types was the Rosnoen sword, named after examples from the hoard published by Briard (1965). These tang hilted swords have blades with tapered sides and a mid section that is flat or slightly rounded, defined by deep bevels. There are a handful of Rosnoen swords from Britain with a surprisingly wide distribution (Colquhoun and Burgess 1988) as well as other related early sword types. There are however none from Ireland which pre-date the Ballintober type.

Colquhoun and Burgess also noted an Irish variant, differentiating them by the more widely splayed shoulders. It is also noteworthy that Ballintober swords from Ireland generally have a more developed ricasso with a distinctive notch at the top of the blade edge. On the British swords the edge ends abruptly well below the ricasso, in the manner of Rosnően swords. The French swords show the same features as the British, suggesting that the Irish swords are furthest away from the Rosnően progenitors. It seems therefore that the presence of Ballintober swords in Ireland is due initially to trade links with the Thames area through the Bristol Channel. These swords were then taken up with enthusiasm, with Irish bronzesmiths soon developing their own versions. The widely splayed shoulders of Type Cutts dirks, many with wide blades (Burgess and Gerloff 1981, pls 100 and 101 in particular), must have

influenced the development of Ballintober swords by Irish bronzesmiths. There is an alleged association of the sword from Strabane, Co.Tyrone (E12) with 'gold objects' and 'ring money', all of which has been lost and no drawings exist.

In view of this, we (Colquhoun and Burgess 1988, 21) suggested that the impetus for the development of the Ballintober type took place in England following the importation of these Rosnoen as well as rod-tanged swords from across the English Channel. There have been no new finds since to suggest that this view should be altered.

Two of the Irish swords E8 and E10 have flattened blade sections comparable with the English Chelsea variant, but exhibit the standard Irish wide shoulders. This was a period of experimentation where we should expect variety. The flattened blade section is a feature of Cutts dirks, from where it was probably derived.

7.2.3 Dating

There is a general paucity of early swords from Ireland, and no associated finds with Ballintober swords, so we must look elsewhere for dating associations. In Britain where there are three swords with associated finds. The Penard hoard from south Wales has three fragmentary swords associated with a spearhead, a socketed axe and an arrowhead. Two hilt and upper blade fragments are clearly Type Ballintober, while a slender blade in two pieces is of Type Rosnöen. The socketed axe is an early type datable to BzD/Ha1. At Thorpe Hall in Essex there is an association with a rapier and palstave (Smith 1959), while at Worth in Devon a sword that looks little more than a developed rapier with poorly defined shoulders was found with two pegged spearheads.

Associations in France

The dating of the Rosnoen Hoard in Brittany is Bronze Final 1, which correlates with BzD/HaA1 in central Europe and Burgess's Penard Period in Britain. The lozenge shaped cross section of Ballintober swords can be traced to the influence of early flange hilted swords, notably Type Hemigkofen, as can the waisted leaf shaped blade.

So we have a marriage of two types of early sword, with a Rosnoen hilt and early flange hilted blade. Hemigkofen swords are discussed further below, but we need to note that their earliest appearance in Europe is most likely to have been in BzD/HaA1, perhaps shortly after Rosnoen Swords (Burgess and Colquhoun 1988, 27). Matthews (2009, 89) has argued for a later date to allow for the influence of Hemigkofen swords on Ballintober development in Ireland, especially in relation to the prominent use of the ricasso in Ireland when compared with Ballintober swords from Braiain. This would put most of the Irish swords in HaA2, late Penard in British terms. In her recent analysis of British dating compared to the rest of Europe, Gerloff also argued that the development of Ballintober swords in Ireland dates to HaA2.

To cross the Irish Sea once again, Eogan's Bishopland phase can be equated with the Penard phase, though Gerloff would extend it to overlap with early Wilburton, HaA2 in continental terms.

Thirty years ago it seemed plausible to argue that the earliest flange hilted swords were too late to have influenced the development of Ballintober swords in England (Burgess and Colquhoun 1988, 21). However I would now turn this on its head and agree with more recent commentators that, given the apparent influence of early flange hilted swords on the development of the Ballintober type in Ireland, it seems reasonable to place them towards the end of the Bishopsland Phase in Ireland, and contemporary with late Penard in Britain. In absolute terms this would put the development somewhere between 1200 and 1100 BC. There are comparatively few early flange hilted and Wilburton swords from Iraeland, which has led to the suggestion that Ballintober swords had a long currency compared to their use elsewhere, into the Roscommon phase (Matthews 2011)

7.3 EARLY FLANGE HILTED SWORDS

These are the swords of Eogan's Class Two. They are what we would immediately recognise as the progenitors of developed Late Bronze Age swords, with long, wide leaf shaped blades. The hilt always has flanges on either side of a thin tang, the shoulders are wide and U shaped, and there is always a ricasso with a distinctive notch where the ricasso meets the blade edge. The blade or hilt are sometimes

decorated. The blade is always leaf shaped, while the section is always lozenge shaped, sometimes with a prominent midrib.

The Irish swords of this type are a mixed lot, and it is convenient to deal with them together

7.3.1 Distribution

The distribution of the swords is essentially northern, with a scattering through Counties Kildare, Westmeath, Clare and Monaghan north to Fermanagh and east to the River Bann.

7.3.2 Origins

Burgess and Colquhoun (1988) divided the British early flange hilted swords into types Reutlingen, Hemigkofen, Erbenheim, Clewer, Limehouse, Taplow, Mortlake and Teddington. This reflects the fact that there are over 80 swords which fit into this category, compared with 12 (??) from Ireland. There are a number of factors which are common to all types, such as wide U shaped shoulders and a lozenge sectioned blade. The origins clearly lie on the Continent of Europe where there are examples.... Following on from the links with Britain apparent with the Ballintober series, it seems reasonable to suggest that these swords reached Ireland through the link with the Thames Valley

The Irish swords can be classified AT LEAST into two of these types, Type Clewer for nos. E26 and E29 and Type Limehouse for nos. E24, E28, E31 and 930.

7.3.3 Dating

These swords lie at the head of development of flange hilted swords and indicate a high degree of experimentation both in form and use over a relatively short period. Their overlap with the more common Ballintober swords has been discussed above, so it follows that the dating, at least of some of the sword types, must be comparable, i.e. the end of the Bishopsland Phase and into Roscommon. In absolute terms this

should put us in the twelfth century BC. Generally, we are looking at a late BzD/HaA1 background through to HaA2. Early Wilburton swords were being developed in Britain by 1100 BC.

7.4 TYPE TAMLAGHT (WILBURTON)

This type is named after the sword found in a hoard at Tamlaght near Navan in Co. Armagh, in 2004. The most obvious characteristic features of Type Tamlaght are the wide splayed shoulders, either straight or very slightly U shaped or convex, and a long, prominent, curved ricasso. Occasionally slight ricasso bevelling is present. The hilt terminal is generally fan shaped, while the hilt itself is straight sided or tapering, normally narrower at the terminal end. There may be either slots or large rivet holes (two or three) on the hilt, and normally large rivet holes on the shoulders, either two or three on each side. Hilts are always flanged.

The blade is always a wide and prominent leaf shape with a comparatively wide waist, sometimes almost balloon shaped. Blade cross section is either a flattened lozenge or elliptical.

7.4.1 Origins

Eogan placed swords with characteristics similar to the British Wilburton Type into his Class 3, which comprised twenty swords, most of which can be classified as Type Tamlaght. Warner, in his discussion of the eponymous hoard found in 2004, identified the sword as a transitional type between classes 2 and 3,that is between early flange hilted and the Wilburton Type. A closer examination of the sword suggests it would fit comfortably into the Wilburton family, specifically Type G (Colquhoun and Burgess 1988). This would put this particular sword towards the end of the Wilburton development in Ireland. Links with N England (Wallington - Burgess 1971)

There is no confirmed Saint Nazaire sword from Ireland so development was presumably through Britain.

7.4.2 Distribution

Compared to the essentially northern distribution of Type Ballintober, Tamlaght

swords come from a wider area, with a number of swords originating from the

Midlands and south.

7.4.3 Dating

The sword from Tamlaght, Co.Armagh, was found in association with a small

Fuchstadt bowl and a cup of Jenišovice type (Warner 2006), both imports from central

Europe. Fuchsstadt bowls are generally dated to Hallstatt A2/B1, while Jenišovice

cups can be placed in Hallstatt B1. Such a date fits well into a middle Wilburton

horizon in the eleventh century BC.

7.5 IRISH EWART PARK SERIES

The vast majority of finds of bronze swords from the Late Bronze Age throughout

Britain and Ireland have similarities which clearly link them together. Eighty years

ago J.D. Cowen introduced a neat and workable definition of this type of sword most

common in the latter part of the Bronze Age, which he named after the three weapons

from the Ewart Park Hoard in Northumberland. This definition has stood the test of

time well and the use of Ewart Park or simply 'Ewart' to define this type of weapon

has become ubiquitous not only in Britain but also among scholars from western

Europe. Eogan followed Cowen's definition to define his Class IV sword in Ireland;

elsewhere the sobriquet has sufficed.

The standardisation of the blade and hilt shape makes meaningful classification

difficult. It is straightforward to recognise weapons at either end of the dating

spectrum. The development of Ewart Park swords from Wilburton swords, whether in

Britain or Ireland, is demonstratable. Features derived from Wilburton are;

Hilt slots

Convex shoulders

Curved ricasso

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Graceful leaf shaped blade

Classifying the British series for PBF in the late seventies led to myself and Colin Burgess dividing the material into four steps based on regional divisions. In essence the steps followed the same basic observations of hilt and blade features that are used here, except that I have divided the Irish Ewart Park series into three sub types. Type A comprises those weapons at the head of the series. Associations in Ireland are generally few and of limited use. The best example of a collection of weapons of this type is from Blackmoor in southern England (Colquhoun 1979). Consequently Irish Ewart Park A swords belong to what would be the Blackmoor Horizon in the development of the British series. Irish Ewart Park B swords are a clear development from the Tamlaght type, Wilburton in Britain, with wide, graceful blades and curved ricassi. Irish Ewart Park C swords share two features which may well be insular, namely a ricasso notch and a slightly foreshortened blade, wide beneath the ricasso.

A study such as this of the bronze swords of Ireland is a good place to question whether Cowen's definition is still valid eighty years later. Brown (1982) urged caution about the relative dates of Eilburton and Ewart Park swords and suggested that an overlap could and should be envisaged.

7.5.1 Irish Ewart Park A (Blackmoor Horizon)

These features are slender hilts, often tapering towards the terminal, splayed, narrow straight or slightly convex shoulders and a short, curved ricasso. The blade is always leaf shaped, and tapers to a distinct point. Length between

As these are small swords there is normally only one rivet hole on each shoulder, and two on the hilt. Ricasso bevelling standard.

7.5.1.1 Origins

Surprisingly there is one hoard from southern England with swords where the hilts can be compared with these Irish weapons, and that is the Blackmoor Hoard from Hampshire (Colquhoun 1978), though the ricassi are longer.

7.5.1.2 Dating

Associations.....Blackmoor Horizon/ early Ewart Park.

7.5.2 Irish Ewart Park B

Large, grace and wide leaf shaped blade of proportionate shape and ending in a slender point.

Deep and curved ricasso, normally long and merging into the blade bevel

Blade bevel ends at base of ricasso

Straight or gently curved wide shoulders

Rivet holes normally large

Hilt sides normally gently bulging in lower third.

7.5.3 Irish Ewart Park C

Leaf shaped blade of variable length and width. The blade is often wide below the ricasso and the lower third foreshortened.

Straight or slightly curved ricasso, notably shallow and vertical when compared with series A.

Ricassi often notched where they touch the shoulders.

Blade edge chamfers extend into ricasso edges.

Straight or gently convex shoulders.

8. DISCUSSION

9. CONCLUSIONS

10. BIBLIOGRAPHY

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⊢-	Α	В	С	D	E	F	G	н	艹	+	К		М	N	0	Р		R	s
1	ID	Findplace	County	Museum No.	Collection	Eogan Type	Туре	Status	Length	blade th width	Shoulde r width	Weight	Patina	Hilt	Condition	Find Circumstances	Associations	Bibliography	Research Notes
2	0					-	-	-	=	+-									
3	1	River Bann*	Antrim/Derry	UM L.37:1934		1/1	Ballintober	Hilt & upper bl	252	2 39	47	Dk bi	brown	4 2R	2 pieces	B: From the Bann during 1930s drainage operations		Bourke (2001), no. B90	Round rivets 4mm diameter
4		River Bann	Antrim/Derry	UM 105:1951		2/1	Ballintober		+	+				<u> </u>				Bourke (2001), no. B91	
ů		Tullydoortans	Tyrone	UM 108:1951		3/1	Ballintober	t	 -							R Bann at 'The Cutts' (E) B: 'C19 drainage operations at			
7	5	Nr Coleraine* Unp*	Derry Donegal	NMI W.23 NMI 1890.1		5/1	Ballintober Ballintober	Ballintober Complete	458 615	5 37	48 52	330 Dk bi 531 Black	orown ck	6	3 pieces soldered together Good, surface pitted, Edges undamaged	the Cutts'		Bourke (2001), no. B89	Strong central midrib
8	6	Lough Erne*	Fermanagh	NMI RSAI.155		6/1	Ballintober	Complete	438	3 38	43	391 Dk bi	brown	4	2 pieces, blade straight	B:C19 dredging	Bourke (2001), no.E47	JRSAI 16 (1883-4), 116	Rivet diam 3mm. Longest 12mm long
9	7	Portora Ford*	Fermanagh	UM A12557		7/1	Ballintober	Complete	520) 44	46	602 Dk bi	brown	4	Good, blade worn.	B:From the riverbed prior to building of sluice in 1955. Other artefacts also found	Bourke (2001), no.E48	Hodges (1957), 64; fig 1.1	
10	8	Passlands*	Kildare	NMI 1940:310		8/1	Ballintober	Complete	505	5 34	53	387 Black		4	Minor edge damage, both edges.	Label: 'In River Barrow at Passlands, Co Kildare' E: 'during drainage'			
11	9	Ballintober *	Mayo	NMI 1936:1984		9/1	Ballintober	Complete	505	5 37	53	459 Black	ck, patchy	4	Ricasso bevelling visible both sides			Wood Martin (1886)	
		D. b					D.W							'				171, pl.37: Hodges	
~	10	Bonermeen	Meath			10/1	Ballintober	 	十一	+-								(1956), 51 Report NMI (1931-2),	
13	- 11	Walsh Island*	Offaly	NMI 1932:6556	-	11/1	Ballintober	Complete Complete(no	431	5 3t	54	370 Dk bi	brown	14	Pitted surface, edges damaged	Label/E: 'With some fgts of gold & piece of ring money.		13: pl 2.3 Eogan (1983), Hoard no.33	
14	12	Strabane*	Tyrone	UM 477:1937	-	12/1	Ballintober	tip)	412	2 26	32	218 Gree	en	4	3 pieces, Corroded edges	Strabane 1879' B: Recovered from the Shannon at Athlone during C19	See find circumstances	Bourke (2001), no.	
15		Athlone*	Westmeath	NMIW:42	<u> </u>	13/1	Ballintober	Complete	492	3 46	54	522 Black		4	Minor edge damage	dredging operations		S113	
16 17	14	R Shannon* Ireland*		NMI W.68 Armagh PL 136	Beresford	14/1	Ballintober Ballintober	Complete Complete	535 486		50	483 Dk bi 320 Dk B	brown, patchy Brown	4 1R	2 pieces soldered together Damaged sh. Badly pockmarked surface	B: Recovered during C19 drainage operations	Bourke (2001), no. S114	-	Rivet diam 3.2mm
18		Ireland*		UM 1911:133A		16/1	Ballintober	Complete	477					4	Worn bl. 3 gen pcs badly joined				Sections good EXCEPT point. Upper bl joint not right. Ex Lord Deramore 1900
19		Ireland*		NMIW-41	Divin G Delamore	470	Ballintober	Complete	470			565 Black			6 pieces soldered together				Edges undamaged. Slight & narrow bevels.
25			1	NMI W.41		1011			47!	41	50							Wilde (1861),443, fig	Hammering marks on each piece.
20	19	Ireland* Ireland		NMI W.79		18/1	Ballintober Ballintober	Complete	451	45	46	422 Patch		4	Cuts at shs are modern			117	1 nick on blade, otherwise undamaged
22	20	Ireland* Ireland*		NMI SA.1989:113 NMAS DM9		21/1	Ballintober Ballintober	Complete Complete	522 550		51 50		:k	4	Edges undamaged, BI slightly bent	<u> </u>			One shoulder damaged. Good bevel
24	22	Ireland*		NMAS DM13		22/1	Ballintober	Complete	493	3 36	52	386 Black		4 (2r)					Pronounced rounded central rib. Some greenish corrosion
25	23	Ireland*		NMAS DM14		23/1	Ballintober		451	1 49	49	490 Black				B: C19 drainage spread over Toome Bar bottom with		Bourke (2001), no.B90	
26	24	Toome*	Antrim	NMIW.1		24/1	Limehouse	Black	674	4 40		677 Black	:k	St:4	Bevel & ricasso wom	other artefacts 0.3 to 0.9m under sand In a bog about two metres below the surface (E) NMI: no	Bourke (2001), no. B92	Bourke (2001), no.B89	Sharp ridge edges
27	25	Cohy*	Clare	NMI 1932:6685		25/1	Wilburton?	Hilt & Sh fgt	207	7	58	Dk bi	brown	<u> </u>		info	<u> </u>		
28 29	26	Ballinamallard*	Fermanagh	BM 64.5-3.1		26/1	Erbenheim?	Complete (tang dma)	545	5 36	59	550 Dk bi	brown	03:08:00	Hilt flanges rough				COD No. 10 con 5 feet and
29		Athy*		NMI P240		27/1	Wilburton?		614	4 45	67	570 Black		3:4 3R	Well cast & good lozenge sect. Edge damage	From R iver Barrow Dredged from R Barrow by OPW, 1930s. Donated by W.	 	 	CBB. Nice big rivets 5 diameter.
30	28	Barrowford*	Kildare	NMI 1996:37	 	28/1	 	Blade & shs	532	2 37	59	Patch	chv dk brown	7:4	Marked damage to one edge & ricasso	Watts, Dept of Botany, TCD	 	Day (1868), 23-4: Day	
H		I							1					' '	Į.		[(1905), 80: Sale Catalogue of the Day	
П		I							1					[!]			[Collection (1913), lot 310, pl 15: Evans	
		I I				i			1					! I	Į.	Found in Lisleitrim Bog. (E) Label adds Muckno as	[(1881), 295-6: Mahr (1939), pl 6.3: Raftery	CBB. Hilt plates are loose & backed with
31 32	29	Lisletrim*	Monaghan	NMI SA.1913:118	Dav	29/2	Erbenheim?	Complete	613	3 48	58	769 Black	:k	SI:6 6R	BONE HILT PLATES.	townland	ļ	(1939), pl 6.3: Rattery (1951), fig 174	card. W 790a inc hilt plates
	30		Ruscommon		rivate	30/2		BI fot	+	\pm		<u> </u>		210	D		 	Mallett (1855), 323,	1mm width grooves on blade. Hilt outline
33 34 35 36 37 38	31 32	Ireland* Ireland*		NMI W.94 Ashm 1927:2895		31/2 32/2	Hemiakofen?	Upper bl & shs Upper bl & shs	30)	7	61	Black	:k	SIB	Bi corroded			325.	visible
35 36	34	Belfast*	Antrim	UM 474:1937 Camb WR27:619B		33/2 34/2		Blade & shs Blade	343	38		Dk bi Dk kl	khaki	f:4	Damaged & corroded. Some bzd Rough surface & serrated edges				CBB
37 38	35	Belfast* Tullyballydonnell	Antrim Antrim	Camb WR27:619A UM 265:1947		35/2		Blade	432	2 47		Dk kt	khaki	'	1	1900' written on blade			
	36							Blade	248	8 43		Dk br	brown	· '	Grooved blade. Pockmarked surface				
39		River Bann*	Antrim/Derry	UM L.34:1934		37/2		Blade	248	3 43		Dk bi	brown		Grooved blade. Pockmarked surface	B: from the Bann during dredging operations in the 1930s.	Bourke (2001). no. B94		CBB
39 40	37	River Bann*	Antrim/Derry Antrim/Derry	UM L.34:1934					248	3 43		Dk bi	brown		Grooved blade. Pockmarked surface				CBB
39 40	37 38	River Bann* Lislea Donashmore*	Antrim/Derry	UM L.34:1934 UM 88:1954		37/2 38/2		Blade Blade	248	1 43		Dk bi	brown			B: from the Bann during dredging operations in the 1930s. B: from the lower Bann, presumably during dredging operations, at Rea's Ford	Bourke (2001). no. B94 Bourke (2001). no. B93		СВВ
39 40	37 38	River Bann* Lislea Donashmore*	Antrim/Derry Tyrone	UM L.34:1934 UM 88:1954 Armadh C 24:1942		37/2 38/2 39/2 40/2		Blade Blade Blade Blade	381	11 48					Grooved blade. Pockmarked surface Mbw near point Probably fake	B: from the Bann during dredging operations in the 1930s. B: from the lower Bann, presumably during dredging			CBB
39 40 41 42 43	37 38 39 40 41	River Bann* Lislea	Antrim/Derry Tyrone	UM L.34:1934 UM 88:1954		37/2 38/2 39/2		Blade Blade Blade	248	11 48			t black			B: from the Bann during dredging operations in the 1930s. B: from the lower Bann, presumably during dredging operations, at Rea's Ford		Knowlee (1990) **-	CBB
39 40	37 38 39 40 41	River Bann* Lislea Donaghmore* Ireland Ireland*	Antrim/Derry Tyrone	UM L.34:1934 UM 88:1954 Armach C 24:1942 UM 3890 (6:6) NMI N1897:49		37/2 38/2 39/2 40/2		Blade Blade Blade Blade Blade	381	11 48						from the Barn durino directains operations in the 1930s. It from the lower Barn, presumably during diedging operations, at their 5 Fard Museum cat: "Collected in neighbourhood of Donashmore."		Knowles (1889), 11: Knowles (1903), 182-3	CBB
39 40 41 42 43 44	37 38 39 40 41 42	River Bann* Listes Donachmore* Ireland Ireland* Carestrose*	Antrim/Derry Tyrone Antrim	UM L.34:1934 UM 88:1954 Armach C 24:1942 UM 3890 (6:6) NMI N1897:49		37/2 38/2 39/2 40/2 41/2 42/2 43/3		Blade Blade Blade Blade Blade	381	11 48	58		t black	Ste 1R		B: from the Bann during dredging operations in the 1930s. B: from the lower Bann, presumably during dredging operations, at Rea's Ford		Knowles (1889), 11: Knowles (1903), 182-3 fig 10: Knowles Cat lot 654	C88
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45	River Bann* Listes Donachmore* Ireland Ireland Ireland Carnstroan* Tynan Ballinagh*	Antrim/Derry Tyrone Antrim Antrim Armagh Cavan	UM L.34:1934 UM 88:1954 Amach C 24:1942 UM 3890 (6:6) NMI N1897:49 NMI SA 1927:929 NMI I 393:15	Private	38/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 45/3		Blade Blade Blade Blade Blade Blade Blade Complete	381 260 592	11 48 10 41 12 43 14 42	58	Matt 546 Black 467 Black	t black	Si-6 1R Si-4	Mow near coint Pobably false Edges damaged 3 pcs. edges damaged	B from the Bann during dredsing operations in the 1930s. B from the lower Bann, presumably during dredging operations, at 82 as a second of the second of th		Knowles (1903), 182-3	C88
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46	River Bann* Lidea Donashmore* Ireland	Antrim/Derry Tyrone Antrim Antrim Armagh Cavan	UM L.34:1934 UM 88:1954 Armach C 24:1942 UM 3890 (6:6) NMI N1897:49 NMI SA 1927:929 NMI 1939:15 NMI 1941:1043	Private	37/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 45/3 46/3		Blade Blade Blade Blade Blade Blade Complete Complete	381 260	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si-6 1R Si-4	Mow near open Probably lake Edges damaged Josc edges damaged Leddmanad with these oddes	B from the Bann durino dredsirin coverations in the 1930s. B from the lower Bann, presumably during dredging coverations, at Res. And the second of the second during turf cutting at the foot of Seamish Mountain, a was broken by the finder (S). Not cast: "Exertisk, Kilmons, Loudness Libert."		Knowles (1903), 182-3 fig 10: Knowles Cat lot 654	C88
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46	River Bann* Uslea Denachmore* Ireland* Ireland* Ireland* Ireland* Ireland* Earnetroan* Tyman Ballinagh* Eorish* or Clogh Oughter Castle*	Antrim/Derry Tyrone Antrim Antrim Armagh Cavan	UM L 34:1934 UM 88:1954 Armach C 24:1942 UM 3890 (6:6) NMI 1987:49 NMISA 1927:929 NMI SA 1927:929 NMI 1939:15 NMI 1941:1043 NMI 1937:3646	Private	38/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 45/3		Blade Blade Blade Blade Blade Blade Complete Complete Complete	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Move near coint Probable take Edges damaged Jack edges damaged Jack edges damaged Understanded with shale edges White accretion on hit. St cracked	B. from the Barro durine direktion operations in the 1930s. B. from the lower Barro, presumably during diredging operations, at Res 2006. Missian cat. "Collected in neighbourhood of Donasthmore". Missian cat. "Collected in neighbourhood of Donasthmore". Missian broken by the Index (E). Mill cast. "Exnish, Klimore Loudites Uboer". Label: "Foreit Exhamic Limine, Garbard, Clovelhi at Leher Foreit Collected Limine, Collecte	Bourke (2001). no. 893	Knowles (1903), 182-3 fig 10: Knowles Cat lot 854 Bourke (2001), no.E52 Macnamara (1901),	CBB
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46	River Bann* Lidea Donashmore* Ireland	Antrim/Derry Tyrone Antrim Armagh Cawan Cawan	UM L.34:1934 UM 88:1954 Armach C 24:1942 UM 3890 (6:6) NMI N1897:49 NMI SA 1927:929 NMI 1939:15 NMI 1941:1043	Private	37/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 45/3 46/3		Blade Blade Blade Blade Blade Blade Complete Complete	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si-6 1R Si-4	Mow near open Probably lake Edges damaged Josc edges damaged Leddmanad with these oddes	B from the Bann durino dredsirin coverations in the 1930s. B from the lower Bann, presumably during dredging coverations, at Res. And the second of the second during turf cutting at the foot of Seamish Mountain, a was broken by the finder (S). Not cast: "Exertisk, Kilmons, Loudness Libert."	Bourke (2001). no. 893	Knowles (1903), 182-3 fig 10: Knowles Cat lot 654 Bourke (2001). no.E52 Macnamara (1901), 358 Armstropp (1924), 143	CBB CBB Bourke states this is a 1530s find
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46 47	River Bann' Listes Denselmore' Instand Instand Instand' I	Antrim/Derry Tyrone Antrim Armash Cavan Cavan Cavan	UM L 34:1934 LM 88:1954 Armach C 24:1942 LM 3890 6:91 MMAS DM44 NMI SA 1927:929 NMI 1939:15 NMI 1937:3646 NMI 1942:70	Private	37/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 45/3 46/3		Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Complete	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Mow near coint Probably take Edges damaged 3 acs edges damaged Undermood with share elses White accretion on hit. Bl cracked Laco smooth surface, edges damaged	B from the Bann durino dredsion coendrons in the 1930s. B from the Bower Bann, presumably during dredging coendrons, at Reas to love Bann, presumably during dredging coendrons, at Reas and the Bower Bann, presumably during dredging the Manual Coendrons of the Bann and the Bower Bann and the Bower Bann and Ba	Bourke (2001), no. B93	Knowles (1903), 182-3 fig 10: Knowles Cat lot 854 Bourke (2001), no.E52 Macnamara (1901), 358	CBB CBB Bourke states this is a 1530s find
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46 47	River Bann* Uslea Denachmore* Ireland* Ireland* Ireland* Ireland* Ireland* Earnetroan* Tyman Ballinagh* Eorish* or Clogh Oughter Castle*	Antrim/Derry Tyrone Antrim Armash Cavan Cavan Cavan	UM L 34:1934 UM 88:1954 Armach C 24:1942 UM 3890 (6:6) NMI 1987:49 NMISA 1927:929 NMI SA 1927:929 NMI 1939:15 NMI 1941:1043 NMI 1937:3646	Private	37/2 38/2 39/2 40/2 41/2 42/2 42/2 43/3 44/3 45/3 46/3 47/3 48/3		Blade Blade Blade Blade Blade Blade Complete Complete Complete	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Move near coint Probable take Edges damaged Jack edges damaged Jack edges damaged Understanded with shale edges White accretion on hit. St cracked	B. from the Barro durine direktion operations in the 1930s. B. from the lower Barro, presumably during diredging operations, at Res 2006. Missian cat. "Collected in neighbourhood of Donasthmore". Missian cat. "Collected in neighbourhood of Donasthmore". Missian broken by the Index (E). Mill cast. "Exnish, Klimore Loudites Uboer". Label: "Foreit Exhamic Limine, Garbard, Clovelhi at Leher Foreit Collected Limine, Collecte	Bourke (2001), no. 893	Knowles (1903), 182-3 fig 10: Knowles Cat lot 654 Bourke (2001), no.E52 Bourke (2001), no.E52 Armstrong (1924), 143, fig 6.1: Eogan (1983) no.31 Armstrong (1924), 143, Armstrong (1924), 143, Armstrong (1924), 143,	CBB CBB CBB CBB CBB CBB CBB CBB
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46 47 48	River Bann' Listes Denselmore' Instand Instand Instand' I	Antrim/Derry Tyrone Antrim Armash Cavan Cavan Cavan	UM L 34:1934 LM 88:1954 Armach C 24:1942 LM 3890 6:91 MMAS DM44 NMI SA 1927:929 NMI 1939:15 NMI 1937:3646 NMI 1942:70	Private	37/2 38/2 39/2 40/2 41/2 42/2 42/2 43/3 44/3 45/3 46/3 47/3 48/3		Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Complete	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Mow near coint Probably take Edges damaged 3 acs edges damaged Undermood with share elses White accretion on hit. Bl cracked Laco smooth surface, edges damaged	B. from the Bann during dendering operations in the 1930s. B. from the lower Bann, presumably during dendging operations, at Res. 2006. Maseum cat: Collected in neinhourhood of Donashmore'. Found during turf cutting at the foor of Steamish Mountain. A was Dotach by the frieder (5) Mill cast: Experis Kilmore: Louchtee User/ Luckt: Freder Experis Limitine, Collabora, Clovethill at E. Found in a postol garden on the top of Keenflee, Nasant toursland.	Bourke (2001), no. 893	Knowles (1903), 182-3 fig 10: Knowles Cat lot 654 Bourke (2001), no.E52 Macnamara (1901), 358 Armstrong (1924), 143, fig 6.1: Eogan (1983) no 31	C88 Bourke states this is a 1530s find
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46 47 48	Siver Bann' Listes Densibrates Selection Selec	Antrim/Derry Tyrone Antrim Armash Cavan Cavan Cavan	LM L.34:1934 LM 88:1954 Armach C.24:1942 JM 890:69: MM 1907:99 NMM SD 934: NMM SD 939:15 NMM 1947:3946 NMM 1947:3946 NMM 1947:3946 NMM 1947:270	Private	37/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 46/3 46/3 48/3 48/3		Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Blade	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Mow near coint Probably take Edges damaged 3 acs edges damaged Undermood with share elses White accretion on hit. Bl cracked Laco smooth surface, edges damaged	B from the Bann durino dredsion coendrons in the 1930s. B from the Bower Bann, presumably during dredging coendrons, at Reas to love Bann, presumably during dredging coendrons, at Reas and the Bower Bann, presumably during dredging the Manual Coendrons of the Bann and the Bower Bann and the Bower Bann and Ba	Bouke (2001), no. 893	Knowles (1903), 182-3 fig 10: Knowles Cat lot 654 Bourke (2001), no.E52 Macnamara (1901), 358 Armstrong (1924), 143, fig. 61: Eogan (1963) no 31 Bourke (2001), no.E64	CSB Southe states this is a 1530s End
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46 47 48	River Bann* Listea Donashmore* Sestard* Instand Carnetroan* Lynan	Antirim Derry Tyrone Antirim Antirim Amsub Caren	UM L 34-1934 UM 88-1964 Amash C 24-1942 UM 3890 86-1 NMI SH 1927-99 NMI SH 1927-99 NMI SH 1927-929 NMI 1941-1043 NMI 1941-70 NMI R 2266 NMI R 2267	Private	37/2 38/2 39/2 40/2 41/2 42/2 43/3 44/3 46/3 46/3 47/3 48/3 48/3		Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Blade	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Mow near coint Probably take Edges damaged 3 acs edges damaged Undermood with share elses White accretion on hit. Bl cracked Laco smooth surface, edges damaged	B. from the Bann durino directains operations in the 1920s. B. from the lower Bann, presumably during dredging operations, at Bans to lower Bann, presumably during dredging operations, at Bans (Manuscott). Maxeum cat: Collected in neinbloushood of Denasthmer's manuscott of Collected in neinbloushood of Denasthmer's Collected in the foot of Steamish Mountain. Saw browners but finder(E) NML cat: Exercish, Klimore, Louethers bloer/ Label: Froot Edward Latient, Collected in Steamish Mountain. Er: Front of an policie part of Collected in Steamish Mountain. Label: Topic Collected in the Steam Steamish Mountain. Underson. Underson.	Bouke (2001), no. 893 1 tow (E50) & 2 sph 1 tow (E40) & 2 sph	Knowles (1903), 182-3 fig 10: Knowles Cat lot 654 Bourke (2001), no.E52 Macnamara (1901), 358 Armstrong (1924), 143, fig 6.1: Eogan (1983) so 31 Armstrong (1924), 143, fig 6.2: Eogan (1983) so 31 Bourke (2001), no.E64 McKenna (1897), 112- Bourke (2001), no.E64	CSB Southe states this is a 1530s End
39 40 41 42 43 44 45 46 47	37 38 39 40 41 42 43 44 45 46 47 48	River Bann* Listea Donsahmore* Interest	Antirim Derry Tyrone Antirim Antirim Amsub Caren	UM L 34-1934 UM 88-1964 Amash C 24-1942 UM 3890 86-1 NMI SH 1927-99 NMI SH 1927-99 NMI SH 1927-929 NMI 1941-1043 NMI 1941-70 NMI R 2266 NMI R 2267	Private	37/2 38/2 39/2 40/2 41/2 42/2 42/2 43/3 44/3 45/3 46/3 47/3 48/3 49/3 50/3 50/3 51/3		Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Blade	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Mow near coint Probably take Edges damaged 3 acs edges damaged Undermood with share elses White accretion on hit. Bl cracked Laco smooth surface, edges damaged	B. from the Bann durino decidino ocerations in the 1930s. B. from the lower Bann, presumably during deedging ocerations, at Ress, and the control of the con	Bouke (2001), no. 893 1 tow (E50) & 2 sph 1 tow (E40) & 2 sph	Knowles (1903), 182-3 (fig 10: Knowles (1903), 182-3 (fig 10: Knowles Cat lot 654 Bourke (2001), no E62 Marramman (1901), 388 Armstrong (1924), 143, 166 5.1 (Eopan (1983) no 31 Armstrong (1924), 143, 166, 6.2 (Eopan (1983) no 31 Bourke (2001), no E64 Bourke (2001), no	CSB Southe states this is a 1530s End
40 41 42 43 44 45 46 47 48 49 50 51	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51	River Bann* Listes Considerate Sensity	Antirim Derry Tyrone Antirim Antirim Amsub Caren	UM L 34-1934 UM 88-1964 Amash C 24-1942 UM 3890 86-1 NMI SH 1927-99 NMI SH 1927-99 NMI SH 1927-929 NMI 1941-1043 NMI 1941-70 NMI R 2266 NMI R 2267	Private	37/2 38/2 39/2 40/2 41/2 42/2 42/2 43/3 44/3 45/3 46/3 47/3 48/3 49/3 50/3 50/3 51/3		Blade Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Somolete 4 pcs Bl & shs	381 260 592	11 48 10 41 12 43 14 42	58	546 Black 467 Black 654 Black	t black	Si6 1R Si4 02:04:00 Si4	Mow near coint Probably take Edges damaged 3 acs edges damaged Johnsmood with share elders White accretion on hit. Bi cracked Laco smooth suffice, edges damaged Very cornoled	B. from the Bann durino decidino ocerations in the 1930s. B. from the lower Bann, presumably during deedging ocerations, at Ress, and the control of the con	Bouke (2001), no. 893 1 tow (E50) & 2 sph 1 tow (E40) & 2 sph	Knowles (1903), 182-3 (fig 10: Knowles (1903), 182-3 (fig 10: Knowles Cat lot 654 Bourke (2001), no E52 Macnamara (1901), 358 Amastong (1924), 143, fig 6.1: Eogan (1983), no 31 Bourke (2001), no E64 MacKenna (1897), 112- Bourke (2001), no E64 MacKenna (1897), 112- Day Collection (1913), 102- Day Collection (1913), 102- Day Collection (1913), 103- Cat 299 pl.15. McKenna	CSB Southe states this is a 1530s End
39 40 41 42 43 44 45 46 47 48 49 50 51	37 38 39 40 41 41 42 43 44 45 46 47 48 49 50 51 52	River Bann* Listes Consubrace* Selection Selec	Antism Derry Turone Antism Amash Cavan Cavan Cavan Cavan Cork Cork Donesal Fermanash	UM L 34-1934 UM 88-1954 Amrash C 24-1942 UM 89-1954 UM 89-09-6 UM 89-09-6 UM 89-0-7-9 UM 89-19-7-9 UM 89-19-7-9 UM 89-19-9 UM 89-19-9 UM 89-19-9 UM 19-19-9 UM 19-19-	Priorite	37/2 38/2 39/2 40/2 41/2 42/2 42/2 43/3 44/3 45/3 46/3 47/3 48/3 49/3 50/3 50/3 51/3		Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Blade	381 260 592	111 488 43 111 488 43 100 41 112 43 113 46 114 42 115 46 11 39 11 39 11 39 10 46 11 39	58 51 66 51 56 48 57	546 Black 467 Black 654 Black	I black Skhown Sk Kown R K K K K K M K M K M K M K M K M K M K	\$14 1R \$14 \$14 \$14 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12	Mow near coint Probably take Edges damaged 3 acs edges damaged Undermood with share elses White accretion on hit. Bl cracked Laco smooth surface, edges damaged	B. from the Bann durino decidino ocerations in the 1930s. B. from the lower Bann, presumably during deedging ocerations, at Ress, and the control of the con	Bouke (2001), no. 893 1 tow (E50) & 2 sph 1 tow (E40) & 2 sph	Knowles (1903), 182-3 (fig 10: Knowles Cat to 694 Bourles (2001) no E62 Macranania (1901), 388 Armstrong (1924), 143, 163 Armstrong (1924), 143, 163 Ing 6.2: Egann (1983) no 31 Bourles (2001) no E62 McKennes (1867), 112- Bourles (2001) no E62 McKennes (1867), 112- McKennes (1867), 112-	CSB Southe states this is a 1530s find Bourke states this in a 1530s find
40 41 42 43 44 45 46 47 48 49 50 51	37 38 39 40 41 41 42 43 46 46 47 48 49 50 51 52	River Bann* Listes Consubrace* Selection Selec	Antism Derry Turone Antism Amash Cavan Cavan Cavan Cavan Cork Cork Donesal Fermanash	UM L 34 1934 UM 88 1954 Amash C 24 1942 UM 889 08 55 NMAS DM34 NMI SA 1927 929 NMI 1939-15 NMI 1937-3646 NMI 1942-70 NMI 19225 NMI 1925 NMI 1925 NMI 1927 929 NMI 1927 9	Priorite	37/2 38/2 39/2 39/2 41/2 41/2 42/2 42/3 44/3 46/3 46/3 48/3 49/3 50/3 51/3 52/3 53/3		Blade Blade Blade Blade Blade Blade Blade Blade Blade Complete Complete Complete Complete Somolete Complete Somolete Som	381 260 592 592 534 593 509 5 511 529 516	8 43 111 48 122 43 13 466 14 422 13 466 10 411 11 39 19 41 6 46	58 51 66 51 51	Man 546 Black 467 Black 654 Black 420 Black Dk k Gree Gree	I black Skhown Sk Kown R K K K K K M K M K M K M K M K M K M K	S16 1R S14 (12 04 00 S14 S12 u 7.6 7.2	Morr near corst Probably false Edges damaged 3 rcs: eddes damaged 1 rcs: eddes damage	B. from the Bann durino decidino ocerations in the 1930s. B. from the lower Bann, presumably during deedging ocerations, at Ress, and the control of the con	Bouke (2001), no. 893 1 tow (E50) & 2 sph 1 tow (E40) & 2 sph	Knowles (1903), 182-3 (fig 10: Knowles (1903), 182-3 (fig 10: Knowles Cat lot 654 Bourke (2001), no E52 Macnamara (1901), 358 Amastong (1924), 143, fig 6.1: Eogan (1983), no 31 Bourke (2001), no E64 MacKenna (1897), 112- Bourke (2001), no E64 MacKenna (1897), 112- Day Collection (1913), 102- Day Collection (1913), 102- Day Collection (1913), 103- Cat 299 pl.15. McKenna	CBB Bourke states this is a 1930s find Bourke states this is a 1930s find Bourke has Museum in Rossnowlagh Franciscan Franciscan Franciscan State S
40 41 42 43 44 45 46 47 48 49 50 51	37 38 39 40 41 41 42 43 44 45 46 47 48 49 50 51 52	River Bann* Listes Consubrace* Selection Selec	Antism Derry Turone Antism Amash Cavan Cavan Cavan Cavan Cork Cork Donesal Fermanash	UM L 34-1934 UM 88-1954 Amrash C 24-1942 UM 89-1954 UM 89-09-6 UM 89-09-6 UM 89-0-7-9 UM 89-19-7-9 UM 89-19-7-9 UM 89-19-9 UM 89-19-9 UM 89-19-9 UM 19-19-9 UM 19-19-	Priorite	37/2 38/2 38/2 38/2 41/2 41/2 41/2 41/2 42/2 43/3 44/3 46/3 46/3 46/3 46/3 46/3 50/3 51/3 52/3 54/3		Blade Blade Blade Blade Blade Blade Blade Blade Blade Complete Bl & shs	248 381 260 592 594 593 599 511 529 516	8 43 111 48 122 43 13 466 14 422 13 466 10 411 11 39 19 41 6 46	58 51 66 51 56 48 57	Man 546 Black 467 Black 654 Black 420 Black Dk k Gree Gree	I black Skhown Sk Kown R K K K K K M K M K M K M K M K M K M K	\$14 1R \$14 \$14 \$14 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12	Mow near coint Probably take Edges damaged 3 acs edges damaged Johnsmood with haba eldes White accretion on his Bi cracked Lace smooth suffice, edges damaged Very cornoled Cornoled Badie & hit citted Resultiful	B. from the Bann durino decidino ocerations in the 1930s. B. from the lower Bann, presumably during deedging ocerations, at Ress, and the control of the con	Bouke (2001), no. 893	Knowles (1903), 182-3 (lig 10: Knowles Cast lot 624 Bourke (2001), no.E52 Macramana (1901), and Amsterong (1924), 143, Amsterong (1924), 143, Amsterong (1924), 143, Amsterong (1924), 143, Amsterong (1924), 143, Bourke (2001), no.E64 McKenna (1897), 112- Sale Catalogue (1924), 142, Sale Catalogue (1924), 143, Sale Catalogue (1924), 143,	CBB Bourke states this is a 1930s find Bourke states this is a 1930s find Bourke has Museum in Rossnowleigh Franciscen Friery Surface skintin concus
39 40 41 42 43 44 45 46 47 48 49 50 51	37 38 39 40 41 41 42 43 44 45 46 47 48 49 50 51 52	River Bann* Listes Docadhmore* Selarier Selarier Instand Carnstroan* Innan In	Antism Derry Turone Antism Amash Cavan Cavan Cavan Cavan Cork Cork Donesal Fermanash	UM L 34 1934 UM 88 1954 Arman C 24 1942 Arman	Printe	37/2 38/2 39/2 40/2 41/2 41/2 42/2 43/3 44/3 45/3 46/3 46/3 46/3 50/3 51/3 52/3 53/3 55/3 55/3		Blade Complete Complete Complete Complete Complete Blade Bla	248 381 260 592 594 593 599 511 529 516	8 43 111 48 122 43 13 466 14 422 13 466 10 411 11 39 19 41 6 46	58 51 66 51 56 48 57	Matt	I black Skhown Sk Kown R K K K K K M K M K M K M K M K M K M K	\$14 1R \$14 \$14 \$14 \$12 \$12 \$12 \$12 \$12 \$12 \$12 \$12	Mow near coint Probably fate Edges damaged Jack edges damaged Jack edges damaged Loss amount of these edges White accretion on hit. Bi cracked Loss amount burden, edges damaged View cornoded Cornoted Black & hit cittle Besuldul, Sis adde damage. Stylin, nances breels. Nice point	B. from the Bann durino decidino ocerations in the 1930s. B. from the lower Bann, presumably during deedging ocerations, at Ress, and the control of the con	Bouke (2001), no. 893	Knowles (1903), 182-3 (fig 10: Knowles Cat bit 654 Boutle (2001), no.E52 Macramara (1901), and an analysis of the state	Bourke states this is a 1830s find Bourke has Museum in Rossnowlegh Franciscen Friety Surface storids opcous Einet Smm dameter Hill repair look like cat in hence this MGGHT be registed.
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39 40 41 42 43 44 45 46 46 46 50 51 52 53 54 55 55 55 55 56 56 66 66 66 67 68	37 38 39 40 41 42 48 49 49 50 51 51 52 53 54 55 56 56 66 63	River Bann* Listles Listles Location of Constitution of Consti	Antism Antism Antism Antism Amagh Caren Ca	UM L34-1934 UM 88-1954 Armach C 24-1942 UM 88-1954 UM 88-1954 UM 88-1954 UM 88-1954 UM 88-1954 UM 88-1964 UM 88-1964 UM 88-1964 UM 88-1964 UM 88-1964 UM 1987-196 UM 1987-196 UM 1987-196 UM 1987-196 UM 1987-196 UM 1988-11	NAMI 1873 1 Knowles Casoman Walker Day Knowles Knowles Works Knowles Works Knowles Works Knowles Works Knowles	372 382 382 382 382 386 386 487 487 487 488 489 489 599 599 599 599 599 599 599 599 599 5		Blade Complete Bl & shs	248 3811 280 5922 5924 5933 5933 5933 5933 5933 5933 5933 593	8 43 11 44 45 46 14 45 46 15 5 48 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	588 511 56 56 56 57 57 54 55 53 53 54 66 68 68 68 68 68 68 68 68 68 68 68 68	546 Black State St	is black is-k-brown is-k-brown is-k-s-s-s-s-s-s-s-s-s-s-s-s-s-s-s-s-s-s	\$16 1R \$14 \$14 \$14 \$12 \$14 \$12 \$14 \$12 \$14 \$15 \$16 \$16 \$16 \$16 \$16 \$16 \$16 \$16	Move near coint Probably take Edges damaged 3 locs edges damaged Listo smooth harbar edges White acception on hit. Bi cracked Listo smooth surface, edges damaged Very comoded Corrocted Blade & hit cotted Beautiful, Go ober damage Solph narrow berefs. Nice point Shiry surface. Replica? see notes. Hit i Good hit receir Tano dam. Hit cood. Bi edge damage & compsion. Tano paces. Well made & firehed Wary & comoded blade Ward cast. Corrocted edges, hit & tang	B. from the Bann durino directains operations in the 1930s. B. from the lower Bann, presumably during directing operations, at Res 1940s. Maxenum cat. Collected in neinblourhood of Donasthmorf. Maxenum cat. Collected in neinblourhood of Donasthmorf. Maxenum cat. Collected in neinblourhood of Donasthmorf. Second during surf cuttings at the foot of Steamish Mountain. Natas broken by the finder, Ed. Mill card. Expirity Milliones. Loughters blood. Label: Froder Edward Letters. Constraint Convertill at Lough Country Collect. E. Fround an postato gastern in the spot Keerdea. Neisbert Investigation Dedocrate in the best of the River Erne at Cathisten's Education Country Collection. Dedocrate in the best of the River Erne at Cathisten's Education. Country Collection. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Education. Dedocrate in the Best of the River Erne at Cathisten's Educ	Bourke (2001). no. 893 1 tw (E50) & 2 ssh 1 tw (E40) & 2 ssh	Knowles (1903), 182-3 (Ig 10: Knowles Cas I to 1921 (Ig 10: Knowle	Bourke states this is a 1530s find Bourke has Museum in Rossnowlegh Franciscen Friety Surface stohitr corous Bivet 3mm dameter Nitt repair look lace cat in hence this MIGHT be a repilica. Eogun drawing based on BA Card Catalogue Ver nice hill with clear shoulders. In two places, nice sword, sharply defined address, flasher scripter on half EGENTRAL TOE SHE DAM 569: 1937, is stre- the original? Label gives biblio nice on they collected in the complete of the complete on the complet

	4	В	С	D	E	F	G	н		J	К	L	М	N	0	P	Q	R Sale Catalogue of the	S
72	70 C	Cushendall	Antrim		Knowles	70/4												Knowles Collection (1924), lot 657	Eogan drawing based on BA Card Catalogue
73	71 S			BM WG1232	Greenwell	71/4		Complete	501	8 39	49	Dk bro	own	2 (1 large):2(+4bl)	Good condition	Label reads 'Stranocum 1770.2322'		Sale Catalogue of the	And the second s
					_{I-} ,													Day Collection (1913).	
	/2 Li	soum:	Antrim	UM 188:1913	Dav	124		Hilt & blade	461	e 27	34	Dk bro	own	uz:uz:00	wom plage.	E: In the bed of the R Lagan below the 1st lock. Musat		lot 308: pl.15	
	73 Ri 74 To	river Lagan*	Antrim/Down Antrim	UM 3822(6.2) NMI 1935:867	Grainger	73/4		Blade Hilt & 2/3 blade	53	7 38 4 45	5 51		own/black own	02:02:00	Broken hilt. Some bzd	fordbelow first lock			
					, ,											In a bog at Toome. Reported to have been in a wooden			Pronounced central midrib. Heavy rivets
77	75 Tc	oome*	Antrim	NMI 1903:14		75/4		Complete	521	5 44	47	785 Black	, patchy	2:2 4R	2 pcs. Patchy white accretion	sheath that was broken up by the turf diggers when found.			4.2mm diameter
78	76 To	oome*	Antrim	NMI W.10		76/4		BI & lower hilt	511	5 45	5 55	Dk hk	aki	7:6	Good casting. Grip outline visible	B: In the River Bann at Toome Bar C19 find.	See Bourke refs. No	Bourke (2001), no. B96	
70				NMI W.4	, ,	77/4		0				005 81-11		00.00.00	Plants & decrease and the state of	E: 'In the River Bann at Toome Bar'. B: With other	hard evidence for	D	
/9	77 Tc	Jome /	Antrim	NMI W.4		///4		Complete	60.	44	5 59	605 Black	, patchy	02:02:00	Blade & ricasso wom - no bevel	artefacts on the hard bottom	assocs	Bourke (2001), no. B95 Lawlor (1932), 209; pl	Slight hilt strengthening ribs. Some edge
80	78 m	r Toome*	Antrim	UM L4:1932	, ,	78/4		Complete	63:	3	48	786 Dk bro	own	03:06:00	Nicely cast. Modern milling on midrib	B: Dredging operations in the 1930s, approx 274m below Toome		6.1: Bourke (2001), no. B97	Slight hilt strengthening ribs. Some edge damage. Hilt outline. Heavy sword
81		oome*	Antrim	UM 464:1937		79/4		Complete	561	0 39	50	530 Shiny	dk brown/black.	2:2 4R	Too quality casting. Hilt outline visible	Label: 'Toome 1913 no.290'			Odd stepped hilt section. Rivets 4.5 mm diam. Point slightly CT shape?
		r Toome*		UM 212: 1955		80/4		BI & shs		_		Dk bro		2.2.71		Labell: Brought up during dredging between Toome weir		Bourke (2001), no. B98	dam. Folk signify of shape:
~			Antrim						183		50				Corroded surface	and railway bridge 1846.		Bourke (2001), no.	
_		Somerset*	Antrim/Derry	UM L.25: 1936		81/4		BI & shs	48				own, patchy	?:2 (+4bl?)	Very corroded blade	E: 'In the River Bann at Somerset'		B101 Bourke (2001),	
84 85	82 Ri	River Bann*	Antrim/Derry Antrim/Derry	Queen's Univ Belfast UM L.35:1934		82/4 83/4		Complete Complete	45		42 45	378 Black 412 Dk bro	own	02:02:00 02:02:00	Blade bent. Nice edge bevelling Hilt & tang repair. Corroded blade.			no.B106	
_		tiver Bann*	Antrim/Derry	UM L.36:1934		84/4		Complete in 2 pcs	551	0 36	3 45	622 Dk bro		2(+1)2	Minor edge damage both edges	B:From the R Bann, presumably thro' dredging		Bourke (2001), no.B103	Hilt & sh holes look iffy. Copy of a genuine sword? Deeply dished hilt flanges odd.
								pos			,	OZZ DK DIO	2001	21112	with edge duringe both edges			Bourke (2001),	and Deeply dance his hanges ode.
		tiver Bann /	Antrim/Derry	UM 103:1951		85/4			H	1						B:From lower Bann		no.B104 Bourke (2001),	
88		tiver Bann*	Antrim/Derry	UM 107:1951		86/4		Complete	60:	21 35	52	508 Dk bro	own	03:04:00	Both edges damaged & worn	B:Recovered from the Bann		no.B105 Bourke (2001),	
90	88 IU:	tiver Bann /	Antrim	Pitt Rivers, Famham NMAS DM.42		87/4 88/4			1	1	+	\vdash						no.B107	
91	89 Us	Inp /	Antrim	NMAS DM.43 NMI W54		89/4 90/4		Complete	475	5 33	3 42	386 Black		2:2 (+2bl)	Bl joint modern ? Sig edge damage				Area rubbed down alongside blade join
	~ 10					-47		Complete	4/		- 42	JOJ DIACK		1-201	and a supplementation of the supplementation			Europe (1994) 000 "	
1					,					1								Evans (1881), 296, figs 361-2: Graves (1873), 257: JRSAI 91(1961),	
93	91 N	fullyleggan*	Armagh	NMI 1959:172	, ,	91/4		Complete	501	7 31		483 Black		Organic	See notes			257: JRSAI 91(1961), 83-4; figs 17 & 18	Bone hilt plates in situ. Too big & R too lon Shape wrong. Why?
94	92 Ty		Armagh		Private	92/4									·	In the bed of the lake in the grounds of Tynan Abbey.		Weatherup (1982), 62	Damage to up bl edges & wide fis entire bl.
95	93 U	np*	Armagh	Armagh C 176:1935	Tenison?	93/4		Complete?	441	6 30	51	Dk bro	own	03:02:00	3 pieces, modern join. Pre tang repair			Weatherup (1982), 62.	Bk sw found & repaired in modern times?
96	94 Us	inp*	Armagh	Armagh C 177:1935		94/4		See notes	56	1 42	53	Dk bro	own	02:02:00	2 pieces. No mid section.				Bl looks genuine. Hilt & up bl rough cast & look fake. Modern ioin
					, ,			Hilt, Sh &upper								E: 'According to the Museum Register this sword was	Said to have been found		
97	95 C	arlow*	Carlow	BM 47,1-13,1		95/4		bl	201	0	44	Dk bro	own	2:4 4R	Patchy bzd	"found with many others in the River Barrow near Carlow" On or near Ballon Hill (E) NMI label: Ballon Hill 26.2.28.	with many swords		
98 99	96 B	Sallon Hill*	Carlow	NMI SA.1928:454 NMI 1930:519		96/4		Bl & shs Blade	370	6 33	3 48	Dk bro	own		2 pieces-damaged edges	Col F Beauchamp-Lecky' Dredged from the River Barrow (NMI carD index)		Mahr (1930), 74	
			Care			98/4			24	7			v block	2.4	Corroded & twisted	E: In a field beside Cuilcagh Lough' See also research	Other swords?	Eogan (1983) Hoard	E (1983): 'Found about 1880 in a field
100	98 Ar	raiow (Cavan	NMI 1930:127		98/4		Complete Bl, shs & lower	583	/	32	Patch	y piack	G9	Shs damaged. Modern hilt. Worn blade	notes	Utner swords?	no 4/	bordering a bog beside Cuilcagh lake' Very worn blade; 2 pieces don't quite join
101	99 B	allyconnell*	Cavan	NMI 1929:1520		99/4		hilt	49:	3 26	3	Black		02:02:00	In 2 pieces	During the River Erne Drainage Scheme. B: 1930s			together. Shs damaged
102 1	100 nr	r Clogh Oughter Castle*	Cavan	NMI 1937:3650		100/4		Complete	46	5 31	41	443 Black		2:2(+2bl)	Minor edge damage	drainage		Bourke (2001), no. E53	Beautifully finished ricassi. Rivet diam 4mm
			0	NR 4000 507	, ,			Complete (no	-			sos pical		0.0 / 00.0 40				Report NMI 1932-3,	Pronounced bevel edges. Minor edge
		r Clogh Oughter Castle* Crossdoney*	Cavan	NMI 1933:587		101/4		tip)	51	- 39	52	595 Black	, patchy	3:2 (+2bl) 1R	Beautiful clean & bright blade	Near the ruins of Clogh Oughter Castle		14: Pl.3.1 Report NMI 1932-3, 14; Pl.3.4	damage
104 1 105 1	102 Cr 103 K	Crossdoney* (Cavan Cavan	NMI 1933:5074 NMI R1570		102/4		BI & shs Complete	541	7 43	3 51	Black Dk bro	own	2 (+1bl):2 (+2bl)	Very worn Shiny surface, corrosion on hilt			14; Pl.3.4 Wilde (1864), 329	
Т	T																		Label 'from D. Malcomson of Cavan. Presented 30/11/1863'. Castlerahan on mus
		Gilmore Bog* (Cavan	NMI R1688 NMI P1955:2		104/4		Blade Blade	29	6 43	3	Black			Twisted	About 4m deep in Kilmore Bog			label
			Ouver			106/4		Diade				000		04.4000	In the second of the second	E: In the River Erne B: Dredged from L Oughter between		D	
	106 SI		Cavan	NMI 1936:1971				Complete	483	3 34	42		v dk brown	2 (+1bl):2	Hilt repair. Corr surface. Nice HaC point	tids of Derries Upper&Slanore B:between tis of Snakeel and Eonish, in sand at lake		Bourke (2001), no.E50	
		Snakeel*	Cavan	BM 49.3-1.46		107/4		Complete	58	1 38	3 47	582 Patch		2: 2 1R 5 diam	Dished hilt edges. Well cast	edge when flood receeded after drainage NMI label: 'Abbey, Trinity Island, Co. Cavan' B: 1930s		Bourke (2001), no.E54	
110 1	108 Tr	rinity Island*	Cavan Cavan	NMI 1937:2852 Ashm 1927:2888		108/4		Blade	334	4 32	2	Green	& brown patches		Bent	dredaina L Ouahter nr T		Bourke (2001). no.E51	
112 1	110 U	np*	Cavan	NMI W44		110/4		Complete	482	2 39	45	Black		02:04:00	Bl cleaned, Edges sharp (see r notes)	le o ditab acos Corpo torre Uniter I qualitas Unios AIM			
113 1	111 U	rnley*	Cavan	NMI 1963:29		111/4		BI & shs	53	7 40	50	Green	1	7:2	Both edges damaged	In a ditch near Cavan town. Urnley, Loughtee Upper (NMI card & Raftery 1970)		Raftery (1970)	
- 1					,					1						E:In 1930 in a bog. From a mud level that contained tree	Horn 2 x SA, 5 X rings,	Report NMI 1930-1, p6:2. Eogan (1983)	
		Soolybrien*	Clare	NMI 1931:235		112/4		Tang	61	9		Khaki		2:?	Hollow at base; broken cast on	stumps, below peat & above gravel On the bed of the River Shannon about 50m downstream	sunflower pin, chain	Hoard no.55 Bourke (2001), no.	B adds find date as 1934 (17.1.34 written or
115 1	113 Ki	illaloe*	Clare	NMI 1934:72		113/4		Complete	41	9 35	5 42	510 Khaki		01:04:00		of the Canal Head at Killaloe		S126 Childe (1940), fig 76.1:	blade)
1					,					1								Mahr (1937), fig 25.1: Raftery (1942).62: fig	
					,			_										3.2; Brindley & Lanting	Brindley and Lanting have C14 date from
116 1 117 1 118 1	114 Kr 115 C	(nocknalappa* (Carriganine* (ir Cork* (Clare Cork	NMI 1936:1974 NMI 1934:11121		114/4		Complete Complete	40! 63!		5 52	234 Green 766 Green	1	02:02:00 3:4(+2bl)	Join/crack nr tip. Crack on hilt	On the foreshore of Knocknalappa Crannog		2001. 156	burnt matter on pot 1007 to 835 cal BC
			Cork	BM 49,3-1,46		115/4		Bl & lower hilt Complete (2	581		1	Dk bro	own	?:4	Sh damaged. Cleaned at blade join				Good hilt repair. Ricassi worn. Rivet is
119 1 120 1	117 nr 118 Ki	r Cork*	Cork Cork	NMI W28 NMI E92:409		117/4		pcs) Blade fgt	477	7 32	2 44	Dk bro Green		02:02:00	Bl corroded & worn. No bevel visible Rough eroded shs and upper blade.				square.
7				202.700				Diago igt			1	Green						Sale Catalogue of the	
121 1	119 N	Meadstown*	Cork	UM 465:1937	Day	119/4		BI & shs	47:	3 36	3 49	Green	bl/dk brown hilt	7:6 5R	Corroded bl & accretion on hilt	Label: 'Meadstone, Cappigaline'		Day Collection (1913), lot 306	Round rivets 3mm diam.
122 1	120 T	oreen More West*	Cork	NMI 1932:4		120/4		BI & shs	49	4 35	5	Dk bro	own		Badly corroded	E:'Within what may be the remains of a stone circle' NMI:nowt		Report NMI 1931-2, 13: pl 2.5	
Т	Т														-			Sale Catalogue of the Day Collection (1913).	
123 1	121 U	np	Cork		Day	121/4			-	1	1	$\vdash \vdash$						lot 303: pl14	Destroted during WW2: previously in
			0.4		Donto Bio	400/4				1								Nicholson (1980),	Liverpool Mus (E). In Nicholson's cat so
124 1 125 1	123 A	np givey*	Cork Derry	NMI E92:403		122/4 123/4		BI & lower hilt	521	6 39	9 49	Dk bro	own	?	Hilt repair obliterates details	NMI label: 'Agivey Ford, Aghadoey, 1900 -1910'		no.72	does it still exist? Some minor corrosion and edge damage
		r Coleraine*	Derry	UM L15:1939		124/4		Bl & shs 2 pcs	57!	9 44	52	Dk bro	own	7:6 2R	Worn edges & coroded blade	In the River Bann at 'The Cutts' B has 1930s		Bourke (2001), no. B100	3 x stub rivets 3.2mm diam.
7	Т															Near the mouth of the River Faughan, that is, from one or other of four townlands of which Campsey Lower is the			
127 1	125 C		Derry	NIMI 4020-4524		125/4		Upp bl & shs	20		1				Cha ware	largest (E)			
129 1	120 nr 127 U	Inp	Derry Derry	NMI 1929:1534 Ashm 1927:2893		126/4 127/4		UDD DI & ShS	23	*					Shs worn				
- 1					,			1		1								Sale Catalogue of the Knowles Collection	
130 1	128 Ur		Derry Donegal	NMI 1900:45	Knowles	128/4 129/4		BI & lower hilt	531	5 45	5 53	Dk bro	own	7:6	Edge damage both edges			(1924). lot 655	E: details and desc from BACC
132	130 Ar	vrds Bea*	Donegal	NMI 1935:430 NMI 1968:230	Fx Salishury R521	130/4		Complete Complete	581	1 39	51	518 Dk bro 607 Black	own	02:02:00	Beautifully cast. Minor corrosion on bl Good. Edge damage both sides	in a bog			
_						132/4										20 ft below the surface of a bog near Buncrana. June		Archaeological Journal	
134 1 135 1	132 Bu	Suncrana* [Surt Castle* [Donegal Donegal	NMI 1968:231 UM 351:1924		132/4 133/4		Complete Hilt & upper bl	621 274		5 53 45	726 Black Dk bro	, creaned own	3:2 (+2bl)	Good. Blade nick, modern hilt notches Worn blade	1873 (label on blade).		X, 161	
Т																		NMI: Arch. Acquistions in the year 1958	
			Donnani	NMI 1958:71	,	134/4		BI & shs & I hilt				405		Domonad	Connected	Found in a bogwith another (NMI record)	No 135 NMI 1958:71	JRSAI 90 (1960), 17- 18. fig 9	
120	134 C:	anan'	Donegal	rendt 1956:/1		139/4		ora sns &≀hilt	561	40	1	405 Green		Damaged	Corroded	r-unio in a bodwith another (NMI record)	INO 135 NMI 1958:71	18. fig 9 NMI: Arch. Acquistions in the year 1958	
136 1					,			1		1								JRSAI 90 (1960), 17-	
136 1		1		NMI 1958:72		135/4	1	Bl & shs & I hilt	57	6 41	4	435 Bright	areen	Damaged	Corroded	Found in a bogwith another (NMI record)	No 134 NMI 1958:72	18. fia 9	
	135 C	'arran*	Donegal	NMI 1958:72	, - 1														
	135 C	ishowen*	Donegal Donegal	UM 4024 (6.65)	Grainger	136/4		Complete	60	0 42	51	636 Dk bro	pwn	03:04:00	Bl joint looks modern but OK	Cond. Second at anothills at 1		Marria (100m ana	Good casting. Nice straight hilt edges. Slightly pitted surface
	136 Ini	Carran* [nishowen* [ackagh* [Donegal Donegal Donegal		Grainger	136/4		Complete Bl & lower hilt	60t	0 42 6 39	51 9 52	636 Dk bro Black	own	03:04:00 01:02:00	Bl joint looks modern but OK Corroded & hilt repair	Card : 'Found at sandhills at Lackagh, Inishkeel, Boylagh nr Portnoo.'		Morris (1920), 320; fig.B	Slightly pitted surface
	136 Ini	nishowen*	Donegal	UM 4024 (6.65)	Grainger	136/4		BI & lower hilt	531	0 42 6 39	51 52	636 Dk bro Black	own			Card: 'Found at sandhills at Lackagh, Inishkeel, Boylagh nr Portnoo.'		Morris (1920), 320; fig.B	Slightly eitted surface Not the drawing in E - I seem to have the he couldn't find. Cat savs 2 pieces?

	+	В	С	D	E	F	G H		J	К	L M	N	0	P Old label on sw: 'Found in 1892 by James Boyle, a	Q	R	S
141 1	39 Moolagh*	h* E	Donegal	NMI 1900:46		139/4	Blade	466	34		Dk brown		Edge & shs badly damaged. Corroded	peasant farmer, in a bog near his cottage in Moolagh, Ardara, Co Donegal			
142 1	40 Unp*		Donegal	NMI 1968:229	Ex Salisbury B707	140/4	Complete	487	35	50	453 Black	3:4(+2bl)	3pieces soldered together. Blade wom		2 other swords (E142 &		
143 1	41 Ballycrogh	ghan* E	Down	Bangor -		141/4	Complete	629	47	53	804 Khaki	2(+1bl):2(+1bl)	Fine condition.Some small airholes		E143) 2 other swords (E141 &	Jooe (1953)	
144 1	42 Ballycrogh	ghan* E	Down	Bangor -		142/4	Complete	627	40	51	816 Khaki	3bl:6bl	Untrimmed & unfinished casting		E143)	Jone (1953)	Slightly bent.
145 1	43 Ballycrogh	ghan* E	Down	Bangor -		143/4	Bl & hilt (no tang)	623	43	51	682 Khaki	?:4bl	Porous casting. Some bz disease		2 other swords (E141 & E142)	Jone (1953)	
146 1 147 1	44 Banbridge	ge*	Down	BM WG 1230	Greenwell	144/4	Complete		40	49	576 Dk brown, patchy	02:02:00	Modern join? Hilt repair & nicks on edge				Some bz d. Drawn at DownpatrickBM loan
147 1	45 Unp			NMI 1876:75		145/4	BI fgt	340	42		Dk brown		Nice blade in good condition			IDENTICAL TO E63	E has Dromora, Co. Down as n
																(UM 476:1937) Likely to be from the same	
	40.1514		Down	UM 469:1937		146/4	Bi & shs	540			Dk brown		Worn & modern upper bl mods	E:'Not localised more closely than to the parish of Kilcoo'		mould in LBA - see drawing notes	
149 1	46 Kilcoo* 47 nr Strabo*	o* E	Down	UM 466:37		147/4	Bi & shs	568	36		Shiny dk brown	7.4	Minor edge damage. Modern lacquer?	E. Not localised more closely than to the palish of Kilcoo		drawing notes	
														Ketterick Is, Strangford Lough, 1901' written on sword			Raised hilt ouline of note also visible on Ballymoney hilt my no. 936.
150 1	48 Ketterick I		Down	UM 581-1934		148/4	Tang missing Tip, sh & term	546	37	46	554 Dk brown, patchy	02:02:00	Small edge nicks.Hilt repair? Raised hilt outline	blade			DownpatrickUM loan.
151 1 152 1 153 1 154 1 155 1	49 Slievenals 50 Unn*	alargy* E	Down?	NMI 1916:23 UM 1911-39		149/4	incomp. Complete	587 607	42 46	52	Dk khaki Dk brown	1:6? 02:04:00	Rough surface, corroded Well cast. Corroded & rough surface				
153 1	50 Unp* 51 Clontarf 52 Boa Island	and E	Dublin	Pitt Rivers Farnham1 Ash 1927:2915		150/4 151/4 152/4											
155 1	53 Drumcran	ample*	Fermanagh	NMI 1878:27		153/4	BI & lower hilt	578	39	46	Black, green corrosion	7:2	Corroded & hilt repair	I 64' written on sword I abel reads: 'Near Enniskillen	2 sws E403 & E404		
156 1	54 Nr Ennisk 55 Nr Ennisk 56 Nr Ennisk	skillen* F	Fermanagh	NMD OA VII J50		154/4	BI in 2 pcs	438	37		Dk brown			1874"			
157 1 158 1	56 Nr Ennisk 56 Nr Ennisk	skillen" F skillen NOT IN MUSEU F	Fermanagh Fermanagh	NMI 1900:44 Lim (City) 126		155/4 156/4	Complete	640	46	56	868 Patchy black	02:04:00	Good shiny surface. Heavy hilt				
	57 Lough Err		Fermanagh			157/4										Bourke (2001), no.E60	E states sw on porivate possn, on loan to Herts Co Museum. St Albans
160 1 161 1	58 Lough Err		Fermanagh	UM 470:1937		158/4	BI & shs in 4	492	36		Dk green, shiny	1R	Modern joins, but looks OK.			Bourke (2001), no.E59	
161 1		rne NOT IN MUSEUM F		Lim (Citv) 127		159/4										Herbert (1941) 84-	
П	readii eli			10007 127		- date T									İ	Bourke (2001). no.E63 Day (1896),55, fig 5: Day (1901), 123: Day	
																Cat (1913), lot 330 pl	
ıl							Complete (no									15: McKenna (1897), 112: Tempest	
	60 Lough Err		Fermanagh	Dundalk 1998:985		160/4	tang)	542	40	47	692 Dk brown	2:2(+2bl)	Heaw casting. Good wide bevel		 	(1961).218	Also Bourke (2001), no.E62 Bourke states sw in private possn on loan t
163 1	61 Lough Err	rne F	Fermanagh			161/4				\vdash						Bourke (2001), no.E61 Lowry-Corry et al.	St Albans (Herts Co)Museumn Painted on bl: Innisleagues Island,
164 1	62 Inishleso	que Island*	Fermanagh	UM 506:1935		162/4	RI she & hill	532	38	52	Dk brown	02:02:00	Corroded edges with minor damage	Bib: 'Two swords, found by Mr McGoldrick on the shore of In. Is, in Upper Lough Erne 1933'	Sword, E163	(1938), 204: Bourke (2001), no.E55	Lisnaskea, Upper Erne, Co. Fermanagh 1933' Purchased
П				200. 1 200			Dr. aria oc ritit	332	- 35	0.3	On several		Section of the control of the contro	Bib: Two swords, found by Mr McGoldrick on the shore of		Lowry-Corry et al. (1938), 204: Bourke	Slightly dished hilt flanges. Details painted
165 1	63 Inishleagu 64 Maguires	gue Island* F	Fermanagh	UM 505:1935		163/4	Complete	548	35	50	528 Dk brown	02:02:00	Rough blade surface	Bib: 'I wo swords, found by Mr McGoldrick on the shore of In. Is. in Upper Lough Erne 1933'	Sword, E162	(1938), 204: Bourke (2001), no.E56	on sword as E162
166 1	64 Maguires	s Bridge*	Fermanagh	NMI 1873:2		164/4	BI & lower hilt	551	37	50	Dk brown	7:4	Blade polished			Day (1896), 54-5: Day	
																(1901), 123: Day Cat (1913), lot 301, pl 14:	
																Mckenna (1897), 112, 116: Bourke (2001),	
167 1	65 Portora*		Fermanagh	UM A187:1913		165/4	Complete	444	30	47	428 Dk brown	03:04:00	Good casting. Minor damage both edges	E:'Found in Lough Erne at Portora Ford'		no.E57 Day (1896), 54-5: Sale	
																Cat of the Day Colin	
168 1	66 Portora*		Fermanagh	UM 479.1937	Day	166/4	Hilt & upper bl	205		41	Dk br0wn	02:02:00	Tang repair			(1913), lot 306: Bourke (2001), no.E58	Dished flanges
																Coffey (1912), 91-2 fig 3 pls 9:3&4: Coffey	
																(1913), 72 fig 65: Macalister (1921) fig	Clean blade. Flanagan (1970) fig 37: Eogan
169 1	67 Tempo*	F	Fermanagh	NMI 1912:56		167/4	Complete	621	44	51	595 Black patchy - more on	02:06:00	Beautiful blade. Good hilt repair		1 sw (E168): 1 bz sph	55: CONT ON NOTES	(1983). 86 no 80.
																Coffey (1912), 91-2 fig 3 pls 9:3&4: Coffey	
							1								1 sw (F167): 1 hz snh	(1913), 72 fig 65: Macalister (1921) fig 55: CONT ON NOTES	Edges sharp. Flanagan (1970) fig 37: Eoga
170 1	68 Tempo*		Fermanagh	NMI 1912:57		168/4	Complete	648	45	53	834 Black patchy - more on	2(+1bl):2(+2bl)	Minor edge damage. Nice weapon		1 sw (E167); 1 bz sph	JRSAI 16 (1883-4), 19:	(1983), 86 no 80.
171 1	69 Clonbrock	ck Demesne	Salway			169/4								E:From the bed of the Clonbrock River (nr Ahascragh). In BACC		JGAHS 5 (1907-8), 185	
172 1	70 Aughnanu		Salway			170/4										JGAHS 6 (1909-10), 51	
	71 Brooklodg		Galway	NMI W76		171/4	BI fot	98			Dk brown			E:'with no 172 under 3' of alluvial deposit resting on limestone gravel in drainage' Killegran	Blade fot no 172	Wide Cat. 475	
	72 Brooklodg			NMI W85		172/4	BI fot	404	40		Patchy black, cleaned		Education of Made and Control	E:'with no 171 under 3' of alluvial deposit resting on	Blade fot no. 171	Wide Car. 475	
			Galway					184	40				Edges damaged. Modern hole in bl	limestone gravel in drainage' Killeoran	Blade rdt no. 171		Pockmarked blade surface, edge damage,
176 1 176 1	73 Bullaun* 74 Carrowmo	more*	Galway Galway	NMI 1931:205 NMI P1954:26		173/4 174/4	Complete Complete	556 510	42 35	49 44	576 Dk brown, patchy 428 Black & clean bronze	03:04:00	2 pieces				stress crack on blade Slightly dished hilt edges
																	NMI label states the interesting accretions are leaves of monocotyledonous. Fgt of ash
177 1	75 Derryodbe	ber East*	Salway	NMI P1952.12		175/4	Bl & bottom hilt	532	38	49	Greensee notes			About 1' below the surface of a cut away bog'			hilt found nearby R 3.2mm diameter. Incredibly thick hilt
178 4	76 Inchagoill	aus c	Galway	NMI SA 1899:68		178/4	Complete	615	,,,	54	983 Dk brown	3:67 2R	Brownish accretion. IRON SWORD?	E has Inchnagoill on Lough Corrib. NMI just has Lough Corrib.			section. Iron oxide accretion or IRON SWORD?
178 1 179 1	76 Inchagolii 77 Keelogue	ue Ford*	Salway	NMI W18		176/4	Complete	510	39	47	515 Black, patchy	2+1:2	E. C. STORD:	Found in the River Shannon at Keeloge Ford (E)		Davids (2004)	Bourke (2001), no. S122
180 1	78 Keelogue	je*	Galway	NMI W46		178/4	Complete	482	37	47	475 Black, patchy	03:04:00	Minor corrosion. blade worn	NMI bl: Fnd in excavating the bed of the river at Keelogue, R. Shannon' B adds in 1843		Bourke (2001), no. S123	
	79 Keelogue		Salway	NMI W 47	Wilde	179/4	Complete	507	39	46	507 Black/dark brown	03:02:00	Cast on hilt	Found in the River Shannon at Keeloge Ford' (E) B adds in 1843		Bourke (2001), no. S124	
	80 Meelick*		Salway	BM 54.7-14.281		180/4	Complete	544	39	45	544 Dk brown, patchy	? (hilt repair)	Cast on hilt			Bourke (2001), no. S125	
102 1	01 Camas Es		Salway	NMI 1960:671		181/4	BI & hilt fgts		30	42	Dk brown	03:02:00	Worn				2 pieces possibly from same weapon. Modern join doesn't look right.
	82 Bellygar*	r (NMI 1903:234 Glastonbury		182/4	Complete	466	37	43	438 Cleaned. patchy black p		Very worn surface & hilt	Label: 'Bellygar, R.Suck'			Hilt very worn hence no section
							0	enc			762 Di hame		Wall aget with amount au **	IDELANDS and Has Fas IV 7' 11-1-		Kemble (1863), 162, pl	
	84 Aghadoe*		Kerry	BM Unreg		184/4	Complete	639	44	51	762 Dk brown, patchy		Well cast with smooth surface	IRELAND' and 'Hor Fer IX,7' on blade		9.7 Report NMI (1933-4),	
	85 Aughrim*		Kerry	NMI 1934:5644		185/4	Pt bl missing	0	36	42	Dk brown, patchy	1(2bl):1(2bl)	Piece missing			14; pl 5.5 Delap (1911): Mitchell	
	86 Valencia I	a Island*	Kerry	NMI 1893:40 NMI X2834(see		186/4	Complete	625	42	49	698 Dk brown, patchy	3:4(+2bl)	Rough surface & sharp edges	Poss c. 1880 'next to the stones'	 	(1989), 98	Modern solder joint on hilt NMI has X2834. Same sword in E has no
	87 Unp* 88 Athy*	P.	Kerry Gldare	notes)		187/4 188/4	Blade Bl & sh	491 500	41 35	$\vdash \vdash$	Black Dk brown		Blade citted Cut across sh appears modern	1		Wilde Cat. 465	187/ W73. Hilt modifications prob C19.
	89 Barrowfor		Girlara	NMI 1928:699		189/4	BI & shs	,er	90	49	Black, patchy		and an annual condition	NMI card: 'Found in June 1928 at Barrowford Island in material dredged from river bed.'			Slot on tang for repair. One squashed rivet situ - reoaired hilt broken?
	90 Kilkea*		Gldare	NMI 1928:699 NMI 1945:305		190/4		400	33	43	418 Black	01:02:00	2 pieces Hill respir Com-1-1	Times and dieded from five Dec.		İ	Join is modern and upper blade wavy but
			Niuafe				Complete(?) Complete (no	450	34	43			2 pieces. Hilt repair. Corroded				pieces appear to be from same sword.
193 1	91 Unp*	P	Kildare	BM 76, 12-14, 13		191/4	tang)	485	34	40	460 Dk khaki	01:04:00	Hilt repair			Wilde (1861), 444-5	
194 1 195 1	92 Kildrinagh 93 Kildrinagh	gh Ford* L	aois aois	NMI W48	Wilde Wilde	192/4 193/4	Complete Complete	599 458	42 33	51 43	607 Black 348 Black	2(+2bl):2(+4bl) 03:02:00	Tang broken Hilt repair	Label: 'Kildranagh Ford, R.Nore, Borris-in-Ossory' Wilde Cat, 468		and 468; fig 318	Edges undamaged except one small nick
196 1	94 Kildrinagh	gh Ford* L	Laois	NMI W49	Wilde	194/4	Complete	469	31	42	358 Black	02:02:00	Minor edge damage	C19 label on sword: "Found in the bed of the Nore under		Wilde Cat. 468	
197 1	95 Kildrinagh	gh Ford* L	Laois	NMI W50	Wilde	195/4	Complete	490	36	44	505 Black	1(+1bl):4	Hilt repair. Sig edge damage	6' of loose gravel'		Wilde Cat. 468 Report NMI (1930-1),	Both edges damaged. Good hilt repair. Go
198 1	96 Lea*		Laois	NMI 1930:529		196/4	Complete	487	33	47	437 Dk green	02:02:00	Damaged & repaired			Report NMI (1930-1), 13: pl.2.1	Both edges damaged. Good hilt repair. Good flanged edges.
199 1	97 O'More's I	s Forest*	aois	NMI 1916:4		197/4	Hilt & upper bl: Blade		32	46	Black	02:02:00	Fats prob belong together, Hilt repairs				Looks like two cast on hilt repairs Bl twisted slightly. Some breakage crack.
200 1	98 Unp*		Laois?	NMI 1936:1647		198/4	Complete	480	38	44	487 Dk brown	3:2 1R	Good				Rivets 30mm diamn
201 1	99 Balluduff*	r-	Leitrim	NMI W52		199/4	Complete	483	31	41	416 Black	2:2 (+2bl)	Good hilt repair	E: 'Found in a rock crevice in the Yellow River nr Ballyduff Bridge'		Wilde Cat. 472	NMI has Ballinamore as townland. Slightly flanged hilt edges.
	On Cannot	oe*	Leitrim	NMI 1959:174		200/4	Complete	440	20	40	251 Black	01:02:00	Good	Found at Will-field Lake, Ballinamore, Co.Leitrim' (label on sword) NMI index has Willowfield Lough, Cannoboe			consequence and subspends
202 ^		- L		NMI 1959:174 NMI W19	Milde	E-JUIN		519	30	42	511 Black	02:02:00		B:during C19 dredging operations at Carrick on		Bourke (2001), no.	
202 2	04 0	00			Wilde		Complete	519	37	47	bil Black	uz:d2:00	Clean & sharo blade. Minor damage.	Shannon	1	S117	i
202 2 203 2 204 2	01 Carrick or 02 Carrick or	on Shannon* L on Shannon* L	Leitrim Leitrim	NMI 1933:248		202/4	Complete	519	35	47	500 Black, cleaned		Tip blunted				
202 2 203 2 204 2 205 2 206 2	91 Unp* 22 Kildrinagh 32 Kildrinagh 34 Kildrinagh 35 Kildrinagh 36 Lea* 37 O'More's I 38 Unp* 39 Ballyddf* 00 Cannobor 01 Carrick or 02 Carrick or 02 Carrick or 03 Clooncum 04 Derrintoh 04 Derrintoh	on Shannon* L on Shannon* L umber* L	Leitrim	NMI 1933:248		202/4 203/4	Complete Bi & shs	519 395	35	47	500 Black, cleaned Black, patchy	3-2 (+2hl)3 in tang	Tip blunted Good Slight edge damage	B:during dredging operations in 1937 at Derrintober nr the mouth of Lough Allen			Very heavy, possibly a replica, but edge

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Н-	A	В	C	В	E	-	G	н	+	J	К	L	М	N	0	Р	q	Sale Catalogue of the	S
207	205 R	Rathsherry	Antrim	NMI L1936.1	Knowles	205/4										E:Found in Rathsherry Bog by Robert Maxwell 1798 (hidden in the thatch (?) on old label		Knowles Collection (1924), lot 653: pl.4	
208 209	206 L	Unp Knocklong	Leitrim Limerick	PR Oxford 2628:1504		206/4			-									BACC	
210	208 L		Limerick	NMI 1968:232	Ex Salisbury B565	208/4		Complete	43	35 33	2 47	E	llack	02:02:00	Blade corroded, but hilt good	Found at Lough Gur in spring of 1852 (NMI card index) NMI card: "Found in a marsh or sandpit with other bronzes			4 pin rivets in situ. Blade corroded.
211	209 n	nr Shanagolden*	Limerick	NMI 1929:1715		209/4		Upper bl & shs	21	11			Nack	?:2(+2bl)	Damaged & worn	but not neccessarily a hoard		Bourke (2001), no.	
212	210 R	R Shannon*		NMI W 13		210/4		Complete	545		9 50	514		3 (+1):4 2R	2 pieces. Good castino. Surface corrosion			S128	
213 214 215	211 L	Unp* Nr Ballymahon* Gliashee*	Longford	NMI W71 NMI 1937:2574		211/4		Bl & lower hilt Complete	523	22 37	7 38	526	0k brown	2:2 (+2bl) 02:02:00	Upper hilt repair looks modern Hilt repair. Sig edge damage				Cast on repair hides dished flances
			Longford	BM WG 1231		213/4		Complete	52	21 39	9 50			2(+1bl):2(+2bl)					
217	215 P	Drogheda* Ballina	Louth Mayo	BM 55,12-20,20 PR Farnham		214/4 215/4		Upper hilt & she	18	38	47	- 1	0k brown			LabeL reads: '1844'			
218	216 B	Ballina	Mayo	PR Farnham PR Farnham		216/4 217/4													
				BACC	White-King	218/4										E:16' deep in bog of Annies with wooden grip which crumbled when touched. 17/6/1890			
					Willerkild	219/4													Tang repair with holes. Slightly dished hillt
222	219 E	Sallinrobe* Cloonkerry*	Mayo Mayo	NMI 1944:259 NMI 1960:670		219/4		Complete Complete	631 471		9 49	657 E	Nack Ok brown, green corros	2(+1bl):6 03:02:00	SI damage along both edges Corroded & worn. Minor edge damage	Clooncormick. Robeen. Kilmaine. Mavo' (NMI card) E: "Found in the thatch of a house"			flances 1 hole in tance
		Hog Island*	Mayo	NMI 1883:37		221/4		Complete	469	39 35	5 44		Slack, green corrosion	3:4 (+2bl)	1 damaged sh. sig edge damage	E: 'Found in the wall of an old castle on Hog Island, Lough Mask'			
224	222 K	Gllaha*	Mayo	NMI W51		222/4		Complete	471	75 31	8 45	419		03:04:00	Edges damaged		2x SA: sph: 2x s/flower		
225	223 N	Newport*	Mayo	BM 1964.12-6.8		223/4		BI fot	8.	34 34	4		Ok brown				pins; 2x dec pins; 2x fgts	Trechmann (1916); Eogan (1983) no.110	
226	224 F	Foxford*		NMI 1939:2		224/4		Complete	46	31 32	2 45	426 E	Slack, patchy	2:2 (+2bl)	Blade worn. Bevel only at hilt & tip.	NMI card: 'Possibly from Foxford, Co Mayo'			
227	225 V	Westport	Mayo	Salford		225/4												Ridgeway(1931), fig.97	
	226 L				Wilde	226/4		Bl & lower hilt Blade &	371	76 21	6 34		llack	1(+1bl):2	Edges damaged				
	227 L		Mayo	NMI 1959:625		227/4		damaged shs	37:	73 25	9	E	slack/brown	1	Some corrosion	Ancient skevn found in the Co Mavo' (label) Found during drainage in gravel at 12" under the bed of			3 pieces: ioints soldered together
231		Addanstown* Ballyhoe*		NMI P1951:121 NMI 1931:307		228/4 229/4		Blade Complete	32I	20 30	6 50 7 50	444 E	llack llack	03:04:00	Bl corroded & pitted	the stream' (NMI record card)			Bl corroded but cleaned.
232	230 T	Tara*	Meath	NMI E92:401 NMI 1956:287		230/4		Bl & shs Bl fgt	371	75 33	2 43		Green Green		Worn & corroded BzD on surface	Old label on sword reads 'July 1867'			
П	2011	and the same						Dr Igi	10			l l'	e wall		and an admitted	Found at Lisduff, Tussy Bog, Parish of Aughnamullen,			
				l										<u></u>		Barony of Cremorne, Co Monaghan, 14 ft from the surface and 2 ft from the clay by Pat McGaghey Aug 1866. 20			
234	232 L	Lisduff*	Monaghan	NMI 1959:173		232/4	-	Complete	541	10 45	5 55	456 E	Nack	02:02:00	Slight edge damage	shillings (label)		JRSAI 91(1961), 85	Slight ribbing on hilt
																			The Munry Collection. Castacque of the Collection of lish intriquities formed by the last Thomas R. Munry Esq. J.P. of the Collection of lish intriquities formed to the last Thomas R. Munry Esq. J.P. of the Annual Report of the Antiquation Committee (1901), University of Cambridge Muneum of Archaeology and Antimopology. No Montimopology in Committee (1901), University of Cambridge Muneum of Montimopology in Committee (1901), University of Cambridge Muneum of Landinge Munry Cambridge Munry Cambridge Munry Cambridge (1901), University of Cambridge Munry Cambridge (1901), University of Cambridge (1901)
																			found with this sword is of oval outline and the convex face is decorated with seven lateral flusing (1".3). The "flutings" on the "pommel" appear to be more likely widely- space tree rings rather than deliberate decoration. The "nommel" is currently olded
235	233 B	Ballykilleen	Offaly	Camb MC99.186	Murray	233/4		Complete	481	30 3	5 50	481.7	Slack patina, but the sv	word has been cleaned.	Surface has been cleaned and there is still some resin adhering. There is a slight pasins on the hilt and shoulders where the original handle would have been attached (see photos). The sword is unbent, though very slightly twisted.		Full list in Foren (1092)		to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos).
236	234 0	Cooldoragh*	Offaly	NMI 1933:761		234/4		2X bl fgts	481	30 3	5 50		0k brown	vord has been cleaned.	resin adhering. There is a slight patina on the hilt and shoulders where the original handle would have been attached (see photos). The sword is unbent,	NMI cand: 'Said to have been found in a souterrain'	Full list in Eogan (1983), no. 20 POSS HOARD		to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos). Pieces do not fit together. Part of same sword? Probably. patina OK
236 237	234 C 235 B	Cooldoragh* Birr*	Offaly Offaly	NMI 1933:761 BM 83,2-18,16		234/4 235/4		2X bl fgts Hilt & 2 bl fgts	481	0 3	5 50		0k brown 0k brown, bzd on hilt	vord has been cleaned.	resin adhering. There is a slight patins on the hilt and shoulders where the original handle would have been attached (see photos). The sword is unbent, though very slightly twisted. Edges damaged		no. 20 POSS HOARD Full list in Eogan (1983),	Full biblio in Eogan	to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos). Pieces do not fit together. Part of same
236 237 238	234 C 235 B 236 C	Cooldoragh* Birr* Dowris*	Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54,7-14.282		234/4 235/4 236/4		2X bl fgts	48	0 3:	5 50 7 46 3 43	1	Ok brown Ok brown, bzd on hilt Ok brown, patchy	1 (+1bl):2	resin adhering. There is a slight patria on the hit and shoulders where the original handlew would have been attached (see photos). The sword is unbent, though very slightly twisted. Edges damaged Lacouered surface	Full story in Eggan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983),	(1983) Full biblio in Eogan	to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos). Pieces do not fit together. Part of same sword? Probably. patina OK
238 237 238 239	234 C 235 B 236 C	Cooldoragh* Sirr* Downis*	Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54.7-14.282 BM 54.7-14.283		234/4 235/4 236/4 237/4		2X bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs.	48	0 3: 0 3: 19 3:	5 50 7 46 3 43 2 44	1	0k brown 0k brown, bzd on hilt	1 (+1bl):2 7:2 1 (+2bl):2	resin adhering. There is a slight patria on the hit and shoulders where the original handle would have been and shoulders where the original handle would have been able to be provided. The sword is unbent, thorough very failing whether. Edders damaged Lacouered surface Lacouered surface	Full story in Eogan (1983), 117-8 Full story in Eogan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983),	(1983) Full biblio in Eogan (1983) Full biblio in Eogan	to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos). Pieces do not fit together. Part of same sword? Probably. patina OK
236 237 238 239 240	234 C 235 B 236 C 237 C 238 C	Cooldoragh* Birr* Downis* Downis*	Offaly Offaly Offaly Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54.7-14.282 BM 54.7-14.283 BM 54.7-14.284		234/4 235/4 236/4 237/4 238/4		2X bl fgts Hilt & 2 bl fgts Bl & lower hilt Complete, 6 pcs Blade & shs. 20cs	481	0 3: 0 3: 49 3: 18 3:	5 50 7 46 3 43 2 44 2 45	384 [Ok brown Dik brown, bzd on hilt Dik brown, patchy Dik brown, patchy Dik brown, patchy	1 (+1bl):2	resin adhering. There is a slight patria on the hit and shoulders where the original handlew would have been attached (see photos). The sword is unbent, though very slightly twisted. Edges damaged Lacouered surface	Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), Pull list in Eogan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan	to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos). Pieces do not fit together. Part of same sword? Probably. patina OK
236 237 238 239 240	234 C 235 B 236 C 237 C 238 C	Cooldoragh* Sirr* Downs* Downs* Downs*	Offaly Offaly Offaly Offaly Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54,7-14,282 BM 54,7-14,283 BM 54,7-14,284 BM 54,7-14,286		234/4 235/4 236/4 237/4 238/4 239/4		2X bl fgts Hilt & 2 bl fgts Bl & lower hilt Complete, 6 pcs Blade & shs. 20cs	48l 44! 41l 40l 288	0 3: 0 3: 19 3: 18 3: 00 3:	5 50 7 46 3 43 43 42 44 5 5	384 [Ok brown Dk brown, bzd on hilt Dk brown, patchy Dk brown, patchy Dk brown, patchy Mack, patchy	1 (+1bl):2 7:2 1 (+2bl):2	resin adhering. There is a slight patria on the hit and shoulders where the original handle would have been and shoulders where the original handle would have been able to be provided. The sword is unbent, thorough very failing whether. Edders damaged Lacouered surface Lacouered surface	Full story in Eogan (1983), 117-8 Full story in Eogan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983),	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983)	to the sword. There is a single small (1mm) notch 225mm from the point, and "very" minor battering 100-150mm from the point (it could also be hammering – see photos). Pieces do not fit together. Part of same sword? Probably. patina OK
238 237 238 239 240	234 C 235 B 236 C 237 C 238 C	Cooldoragh* Sirr* Downs* Downs* Downs*	Offaly Offaly Offaly Offaly Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54.7-14.282 BM 54.7-14.283 BM 54.7-14.284		234/4 235/4 236/4 237/4 238/4		2X bl fgts Hilt & 2 bl fgts Bl & lower hilt Complete, 6 pcs Blade & shs. 20cs	481 441 411 400 283 273	0 3: 0 3: 19 3: 18 3: 10 3: 33 3: 32 3:	5 50 7 46 7 46 3 43 43 42 44 45 5	384 [Ok brown Dik brown, bzd on hilt Dik brown, patchy Dik brown, patchy Dik brown, patchy	1 (+1bl):2 7:2 1 (+2bl):2	resin adhering. There is a slight parties on the his had advolated were the original handle would have been adapted (see photos). The word is urbert, fleeping there also the handle of the photos had been advolated to the photos had been advolated to the photos had been advolated to the photos had been advolated to the photos had been advolated by the photos had	Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), Pull list in Eogan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan	to the sword. There is a single small (firm) notch 22mm form the point, and "val") motor 22mm form the point, and "val", more battering 100-150mm tome the point of could also be the humanisms; see profession. Pieces so not fit together, Part of same sweet? Probably, paths QK. Upper to peec missions, Johns are C19. TWO IDENTICAL SWORDS, INCLUDING
236 237 238 239 240	234 C 235 B 236 C 237 C 238 C	Cooldoragh* Sirr* Downs* Downs* Downs*	Offaly Offaly Offaly Offaly Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54,7-14,282 BM 54,7-14,283 BM 54,7-14,284 BM 54,7-14,286		234/4 235/4 236/4 237/4 238/4 239/4		2X bl fgts Hilt & 2 bl fgts Bl & lower hilt Complete, 6 pcs Blade & shs. 20cs	481 441 411 400 283 273	0 3: 0 3: 19 3: 18 3: 18 3: 33 3: 34 3: 22 3:	7 466 7 463 3 43 2 44 45 5 6	384 [Ok brown Dk brown, bzd on hilt Dk brown, patchy Dk brown, patchy Dk brown, patchy Mack, patchy	1 (+1bl):2 7:2 1 (+2bl):2	resin adhering. There is a slight parties on the his had advolated were the original handle would have been adapted (see photos). The word is urbert, fleeping there also the handle of the photos had been advolated to the photos had been advolated to the photos had been advolated to the photos had been advolated to the photos had been advolated by the photos had	Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), Pull list in Eogan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan	to the sword. There is a single small (firm) noch 22mm form bet point, and "very micro battering 100-150mm storm the point of county micro battering 100-150mm storm the point of county and the point of county and the point of county and the point of county and the point of county and the point of county and the point of the poin
236 237 238 239 240	234 C 235 B 236 C 237 C 238 C	Cooldoragh* Sirr* Downs* Downs* Downs*	Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly	NMI 1933:761 BM 83.2-18.16 BM 54.7-14.282 BM 54.7-14.283 BM 54.7-14.284 BM 54.7-14.286 NMI 1935:168		234/4 235/4 236/4 237/4 238/4 239/4 240/4		2X bl fgts Hilt & 2 bl fgts Bl & lower hilt Complete, 6 DCS Blade & shs. 2ccs Bl fgt Bl fgt REPLICA	481 441 411 401 283 273	0 3: 0 3: 19 3: 18 3: 00 3: 33 3: 12 3:	7 46 7 46 3 43 2 44 2 45 5	384 [Ok brown Dk brown, bzd on hilt Dk brown, patchy Dk brown, patchy Dk brown, patchy Mack, patchy	1 (+1bl):2 7:2 1 (+2bl):2	resin adhering. There is a sliply partie on the his bard absolutes where the original handles would have and absolutes where the original handles would have been a subset. Edges demaged Lacouried surface Lacouried surface Lacouried surface B altered B altered	Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8 Full storv in Ecoan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), Pull list in Eogan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983)	to the sword. There is a single small (firm) notch 22mm (nor the point, and "any) more battering 100-150mm (nor the point, and "any) more battering 100-150mm (nor the point of could also be humanism;—see problem). Places do not fit together. Part of same sword? Probably, paths of K. Model to proc. Impairs, Johns are C19. TWO IDENTICAL SWORDS, INCLUDING CASTING BLEMISHES, COPES OF TWO IDENTICAL SWORDS, INCLUDING CASTING BLEMISHES, COPES OF
236 237 238 239 240 241 242 243	234 C 235 B 236 C 237 C 238 C 239 C 240 B	Cooldoragh* Sler Dowris* Dowris* Dowris* Dowris*	Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly	NMI 1933:761 BM 83,2-18,16 BM 54,7-14,282 BM 54,7-14,283 BM 54,7-14,284 BM 54,7-14,286 NMI 1935:168 NMI 1962:123		234/4 235/4 236/4 237/4 238/4 239/4 240/4		2X bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs. 2ccs Bl fqt Bl fqt REPLICA			7 46 7 46 7 46 7 46 7 46 7 46 7 46 7 46	384 [0k brown 0k brown, bzd on hilt 0k brown, bzd on hilt 0k brown, batchy 0k brown, patchy 0k brown, patchy 0k brown, patchy 1dack, patchy	vood has been cleaned. 1 (+1bl)2 7.2 1 (+2bl)2 7.4 (2 are notches)	resin adhering. There is a slight parties on the his had advolated welve the original handle would have been adapted free photos). The saved is unbent, the properties of the	Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), Pull list in Eogan (1983), no.119	/1963) Full biblio in Eogan (1963) Full biblio in Eogan (1963) Full biblio in Eogan (1963) JRSAI 94 (1964), 92-3	to the sword. There is a single small (firm) noch 22mm form bet point, and "very micro battering 100-150mm storm the point of county micro battering 100-150mm storm the point of county and the point of county and the point of county and the point of county and the point of county and the point of county and the point of the poin
238 237 238 239 240 241 242 243 243	234 C 235 B 236 C 237 C 238 C 239 C 240 B 241 U 242 U 243 A	Cooldoragh* Cooldoragh* Dowris* Dowris* Dowris* Dowris* Line*	Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Offaly Roscommon	NMI 1933-761 BM 93-2-18,16 BM 93-2-18,16 BM 54-7-14-282 BM 54-7-14-283 BM 54-7-14-284 BM 54-7-16-286 NMI 1935-168 NMI 1962-123 NMI 1962-124 NMI W58		234/4 235/4 236/4 237/4 238/4 239/4 240/4 241/4 242/4 243		2X bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs. 2ccs Bl fqt Bl fgt REPLICA REPLICA Complete (tang	481 441 401 28: 27:		7 46 3 43 3 43 2 44 2 45 5 6	384 [0k brown Nk brown, bzd on hilt Nk brown, bzd on hilt Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Lack, patichy Lack	vood has been cleaned. 1 (+18i)2 72 1 (+28i)2 74 (2 are notches) 1(+18i)4	resin adhering. There is a slight parties on the his and shoulders where the original handles would have and shoulders where the original handles would have though year slightly heisted. Edges damaged Lacouserd surface Lacouserd surface. B wom B altered STRANGE JON. SURFACE JON. SURFACE JON. SURFACE JON. SURFACE STRANGE STR	Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Label reads: 'Addone Church, Bode'	no. 20 POSS HOARD Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), no.119 Full list in Eogan (1983), Pull list in Eogan (1983), no.119	/1963) Full biblio in Eogan (1963) Full biblio in Eogan (1963) Full biblio in Eogan (1963) JRSAI 94 (1964), 92-3	to the sword. There is a single small (firm) noth 22mm (nor he point, and "wey") noth 22mm (nor he point, and "wey") (oxide also be hammering. — see photos). Received to refit in pointer, Pari of same snoot? Probably, patient CK (Upper IV) press missing, Johns are C19. TWO IDENTICAL SWORDS, INCLUDING CASTING BLEAKISHES, COPES OF ORIGINALS.
238 237 238 239 240 241 242 243 244 245 246	234 C 235 B 236 C 237 C 238 C 239 C 240 B 241 U 242 U 243 A	Codidensigh* Birt* Downis* Downis* Downis* Downis* Bashyin* Ling* Ling* Visional Control Ling* Visional Control Ling* Visional Control Visiona	Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Rescommon	NMI 1933-761 BM 63-2-16-16 BM 63-2-16-16 BM 54-7-14-282 BM 54-7-14-283 BM 54-7-14-284 NMI 1935-166 NMI 1935-166 NMI 1935-166 BM 63-1-16-244 NMI 1935-168 BM 63-1-16-2124 NMI 1935-166		234/4 235/4 236/4 237/4 238/4 239/4 240/4 241/4		2X bl fgts Hilt & 2 bl fgts Bl & lower hilt Complete, 6 DCS Blade & shs. 20cs Bl fgt Bl fgt REPLICA REPLICA			7 46 7 46 3 3 43 2 44 2 45 5 6 8	384 [0k brown Nk brown, bzd on hilt Nk brown, bzd on hilt Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Lack, patichy Lack	vood has been cleaned. 1 (+1bl)2 7.2 1 (+2bl)2 7.4 (2 are notches)	resin adhering. There is a slight parties on the his had advolated welve the original handle would have been adapted free photos). The saved is unbent, the properties of the	Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8	no. 20 POSS HOARD Full list in Eogan (1983). no. 119 Full list in Eogan (1983). Full list in Eogan (1983). no.119 Full list in Eogan (1983). no.119	/1963) Full biblio in Eogan (1963) Full biblio in Eogan (1963) Full biblio in Eogan (1963) JRSAI 94 (1964), 92-3	to the sword. There is a single small (firm) noth 225mm (nor he point, and help). Plecos do not fit logether. Part of same Upper to Jesus to the same Upper to Jesus
238 237 238 239 240 241 242 243 244 245 246	234 C 235 B 236 C 237 C 238 C 239 C 240 B 241 U 242 U 243 A	Cooldoragh* Cooldoragh* Dowris* Dowris* Dowris* Dowris* Line*	Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Rescommon	NMI 1933-761 BM 53,2-16,16 BM 54,7-14,282 BM 54,7-14,283 BM 54,7-14,286 BM 54,7-14,286 NMI 1935-168 NMI 1982-123 NMI 1982-124 NMI 1982-124 NMI W58 BM 63,1-22,116		234/4 235/4 236/4 237/4 238/4 239/4 240/4 241/4 242/4 243		2X bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs. 2ccs Bl fqt Bl fgt REPLICA REPLICA Complete (tang			7 46 7 46 3 3 43 2 44 2 45 5 6 8	384 [0k brown Nk brown, bzd on hilt Nk brown, bzd on hilt Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Lack, patichy Lack	vood has been cleaned. 1 (+18i)2 72 1 (+28i)2 74 (2 are notches) 1(+18i)4	resin adhering. There is a slight parties on the his and shoulders where the original handles would have and shoulders where the original handles would have though year slightly heisted. Edges damaged Lacouserd surface Lacouserd surface. B wom B altered STRANGE JON. SURFACE JON. SURFACE JON. SURFACE JON. SURFACE STRANGE STR	Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Label reads: 'Addone Church, Bode'	no. 20 PCSS HOARD Full list in Ecgan (1983), routil Control to the Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) JRSAI 94 (1964), 92-3 JRSAI 94 (1964), 92-3 Watson (1993), no. 132	to the sword. There is a single small (firm) notch 22mm (form the point, and "not) motor 22mm (form the point, and "not point and "not point and "not point and also the lamments" sees problem). Pieces do not fit together. Part of same several Predataly, parts and K. Upper to precent meeting. Johns are CTP. TWO IDENTICAL SWORDS, INCLUDING CASTING BLEMISHES, COPES OF ORKIONAL? TWO IDENTICAL SWORDS, INCLUDING CASTING BLEMISHES, COPES OF ORKIONAL? NEEDS OF THE PROBLEM
236 237 238 239 240 241 242 243 244 245 246 247	234 C 235 B 236 C 237 C 238 C 239 C 240 B 241 U 242 U 243 A	Couldonads* Dowlis* Dowlis* Dowlis* Dowlis* Dowlis* Dowlis* Jowlis*	Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Rescommon	NMI 1933-761 BM 63-2-16-16 BM 63-2-16-16 BM 54-7-14-282 BM 54-7-14-283 BM 54-7-14-284 NMI 1935-166 NMI 1935-166 NMI 1935-166 BM 63-1-16-244 NMI 1935-168 BM 63-1-16-2124 NMI 1935-166		234/4 235/4 236/4 237/4 238/4 239/4 240/4 241/4 242/4 243		2X bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs. 2ccs Bl fqt Bl fgt REPLICA REPLICA Complete (tang			5 50 7 466 33 433 433 432 445 5 8 8 7 40 6 42	384 [0k brown Nk brown, bzd on hilt Nk brown, bzd on hilt Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Nk brown, patichy Lack, patichy Lack	vood has been cleaned. 1 (+18i)2 72 1 (+28i)2 74 (2 are notches) 1(+18i)4	resin adhering. There is a slight parties on the his and shoulders where the original handles would have and shoulders where the original handles would have though year slightly heisted. Edges damaged Lacouserd surface Lacouserd surface. B wom B altered STRANGE JON. SURFACE JON. SURFACE JON. SURFACE JON. SURFACE STRANGE STR	Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Label reads: "Addorne Church, Boole" Label reads: "Addorne Church, Boole"	no. 20 PCSS HOARD Full list in Ecgan (1983), routil Control to the Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) JRSAI 94 (1964), 92-3 JRSAI 94 (1964), 92-3 Watson (1993), no. 132	to the swood. There is a single small (rimm) noth 22mm from the point, and "Ney" (moth 22mm from the point, and "Ney") (moth 22mm from the point, and "Ney") (moth 22mm from the point point) (moth 22mm from the
236 237 238 239 240 241 242 243 244 245 246 247	234 C 235 B 236 C 237 C 238 C 239 C 239 C 240 B 241 L 241 L 242 L 243 M 244 n 245 n 246 C	Dooldonads' Ber ' Ber ' Dooldon'	Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Offsly Rescommon	NMI 1932-781 BM 53.2-18.16 BM 54.7-14.282 BM 54.7-14.283 BM 54.7-14.284 BM 54.7-14.284 BM 54.7-14.284 BM 54.7-14.284 BM 54.7-14.284 BM 54.7-14.284 BM 1932-166 NMI 1932-124 NMI 1932-124 BM 54.7-14.284 NMI 1932-124 SMI 1932-124		234/4 235/4 235/4 236/4 237/4 238/4 240/4 241/4 243/2 244/4 244/4 246/4		2X bl fqts Hilt & 2 bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs. 2S Blade & shs. 2S Bl fqt Bl fqt REPLICA Complete (tang dme) Complete			5 50 7 46 3 43 3 43 43 42 44 5 8 8 7 40 6 42	384 E	Dk brown Dk brown, bad on hilt Dk brown, bad on hilt Dk brown, bad on hilt Dk brown, patichy Dk brown, patichy Dk brown, patichy Dk brown, patichy Dk brown	oot has been deared 11418/2 22 11428/2 24 Q are notches) 1648/14 6149/6 1148/16	resin adhering. There is a slipe parties on the his band absolute value for ediparal handles well of the ediparal handles would have absolute very slightly tested. Edges demaged Lecoured surface. Lecoured surface. Si worn STRANGE JON. STRANGE JON. STRANGE JON. Surface street & demand. His repair, Bi in 2 ocs.	Full story in Ecoan (1983), 117-6 Full story in Ecoan (1983), 117-8 Full story in Ecoan (1983), 117-8 Full story in Ecoan (1983), 117-8 Full story in Ecoan (1983), 117-8 Label reads: Addonne Church, Brole' Label reads: RoscommonWestmenth Afficine boo nearl	no. 20 PCSS HOARD Full list in Ecgan (1983), routil Control to the Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119	(1983) Full biblio in Eogan (1983) Full biblio in Eogan (1983) JRSAI 94 (1964), 92-3 JRSAI 94 (1964), 92-3 Watson (1993), no. 132 Mary (1993), no. 142 Mary (1993), 384, fig. 43. Report NMI (1933)	to the sword. There is a single small (firm) noth 225mm from the point, and "May"). The point 250mm from the point, and "May" (and the point) of could also be hammering – see photos). Pleces do not fit together. Part of same mercory Photosis, partie oK. LEDGE 18 DRIVE SHEET SHEE
238 237 238 239 240 241 242 243 244 246 246 247 248	234 C 235 B 236 C 237 C 238 C 239 C 240 B 241 U 242 U 243 A 244 n 245 n 246 C 247 C	Condidenatin' Condidenatin' Dentin' Dentin' Dentin' Dentin' Dentin' Dentin' Dentin' Dentin' Dentin' Periodenatin' Dentin' Periodenatin' Dentin' Periodenatin' Dentin'	Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Reacommon Reacommon Reacommon Reacommon Reacommon	NMI 1933-761 BM 53-7-15-16 BM 53-7-16-16 BM 54-7-14-282 BM 54-7-14-284 BM 54-7-14-286 NMI 1935-168 NMI 1935-168 NMI 1962-124 NMI VS8 BM 63-7-14-216 BM 63-7-14-216 BM 63-7-14-216 BM 63-7-14-216 BM 63-7-14-216 BM 63-7-14-2	Wäde Barnett	234/4 235/4 236/4 237/4 238/4 239/4 240/4 241/4 242/4 243		2X bl fqts Hilt & 2 bl fqts Bl & lower hilt Complete, 6 pcs Blade & shs. 2ccs Bl fqt Bl fgt REPLICA REPLICA Complete (tang		17 3: 11 2: 14 2:	7 40 6 42 7 46	384 [384 [6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ik brown ik brown, bad on hilt ik brown, bad on hilt ik brown, patchy ik brown, patchy ik brown, patchy ik brown, patchy ik brown, batchy ik brown, batchy ik brown patchy ik brown, pa	vood has been cleaned. 1 (+18i)2 72 1 (+28i)2 74 (2 are notches) 1(+18i)4	resin adhering. There is a sliply partie on the his based and brokelers where the original handles would have absolute the resignal handles would have also and the same of the same of a subset. Eddes demanded Lacouserd surface Lacouserd surface Buson Bulleted STRANGE JON. Sortice offield & deemed His resear, Bl in 2 co. Cost on hit	Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Full story in Eopan (1983), 117-8 Label reads: "Addorne Church, Boole" Label reads: "Addorne Church, Boole"	no. 20 PCSS HOARD Full list in Ecgan (1983), routil Control to the Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119 Full list in Ecgan (1983), no.119	(1983) (Fill biblio in Eogan (1983) (Fill bib	to the swood. There is a single small (rimm) noth 22mm from the point, and "Ney" (moth 22mm from the point, and "Ney") (moth 22mm from the point, and "Ney") (moth 22mm from the point point) (moth 22mm from the
236 237 238 239 240 241 242 243 244 245 246 247 248 248 249 250	234 C 235 E 6 237 C 238 C 239 C 239 C 240 E 6 241 U 242 U 243 M 245 n 246 C 247 C 248 K	Tooddonadn' Tooddonadn' Flori	Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Offsiry Reacommon Reacommon Reacommon Reacommon Reacommon	NMI 1933-761 BM 53.2-15.16 BM 53.2-15.16 BM 54.7-14.282 BM 54.7-14.283 BM 54.7-14.284 BM 54.7-14.286 BM 54.7-14.286 BM 54.7-14.286 BM 54.7-14.286 BM 54.7-14.286 BM 54.7-14.286 NMI 1992-123 NMI 1992-124 NMI 1992-124 NMI 1993-188 BM 63.1-22.116 1957-188 NMI 1934-6048 NMI 1931-319 NMI 1931-319 NMI 1931-319 NMI 1931-319 NMI 1931-319 NMI 1931-319 NMI 1931-319	Wide Barrett	238/4 238/4 238/4 237/4 238/4 248/4 241/4 242/4 243/4 244/4 248/4 248/4 248/4		2X bl fqts Hitt & Z bl fqts Bit & I ower hitt Complete, 6 DCS Blade & shs. 2ccs Bl fqt Bl fgt Bl fgt REPLICA Complete (amg dmol) Complete (amg Complete (amg dmol)	54 44 41	17 3: 11 2: 14 2:	7 40 6 42 7 46	384 [384 [6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ik brown ik brown, bad on hilt ik brown, bad on hilt ik brown, patchy ik brown, patchy ik brown, patchy ik brown, patchy ik brown, batchy ik brown, batchy ik brown patchy ik brown, pa	oot has been deared. 11+19/2 7-2 11+29/2 7-4 C are notices) 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3 11+19/3	resin adhering. There is a sliply partie on the his and shoulders where the original handlers would have absolute the resignal handlers would be compared to the control of	Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Fed story in Ecoan (1983), 117-8 Label reads: 'Andores Charch, Bode' Label reads: 'Rescommon-Westmesh, Albione boo read' NMI card: 'Found at a depth of 69' in a bog at Canbo' E-Tound in a bog under 15 spils of full "Milmone" Life Starting of the Star	no. 20 PCSS HOARD THE III BIT IN EGGIN (1985). no.119 Full Ist in Eggin (1985). Full Ist in Eggin (1985). Full Ist in Eggin (1985). Full Ist in Eggin (1985). Full Ist in Eggin (1985). Full Ist in Eggin (1985). Full Ist in Eggin (1985).	(1983) Full biblio in Eogan (1	to the sword. There is a single small (rimm) noch 22mm from the point, and "Any in control 22mm from the point, and "Any in control 22mm from the point, and "Any in control 22mm from the point and t
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	В	С	D	E	F	G	Н	_	J	K	L M	N	0	P	Q 2 swords, nos 268 and	R Eogan (1983), Hoard	S
	67 Relagh*	Tyrone	NMI 1938:35		267		Complete	625	44	48	786 Black, patchy	02:04:00	Minor edge damage	E: 'In Relagh bog, possibly with nos 268 and 269'	269. 2 swords, nos 267 and	no. 141 Eogan (1983), Hoard	
270 2	68 Relagh*	Tyrone	NMI 1938:36		268		Complete	619	47	52	825 Black	3:4 (+2bl) 3R	Beautiful blade - only a couple of nicks	E: 'In Relagh bog, possibly with nos 267 and 269'	269 2 swords, nos 267 and	no. 141 Eogan (1983), Hoard	
271 2	69 Relagh*	Tyrone	NMI 1938:37		269/4		Complete	628	44	55	876 Black, patchy	2:2 (+2bl)	V good. Sharp edges. Hilt v rough.	E: 'In Relach boo. possibly with nos 267 and 268'	268. 1 sph; 2 SA; 2 tanged	no. 141 Power (1898): Eogan	Blade slightly twisted.
272 2 273 2	70 Knockmaon* 71 near Athlone	Waterford Westmeath	NMI P1948:151 PR Oxford 1496:2624		270/4		Blade fot	292	36		Black		Corroded surface	E:Found in the River Shannon'	chisels: 1 SG: 2 SK	(1983) no.144	
	72 Ballyhealey*	Westmeath	NMI 1938:136				Complete	458	35	44	421 Dk brown	02:02:00	Minor edge damage both edges	Label: 'Ballyhealey or Ballinure 25.11.38 James Bray' No further details			
274 2 275 2	73 Bishopstown*	Westmeath	UM 472:1937		273		Bl & shs	415	33	48	Brown	02.02.00	Damaged hilt. V corroded blade	E/Label: 'Found in rath at Bishopstown. Co Westmeath'			ScratchedMechanical damage from turf
276 2	74 Bracklin*	Westmeath	NMI 1959:31		274/4		Blade Bl. shs & lower	359	39		Black		Scratched				cutter?
277 2	75 Carrickobreen*	Westmeath	NMI P1948:85		275/4		hilt	436	26		Black	?	3 pieces, joined together. Hilt repair.			E has Craddastown.	Blade wavy and twisted. Cast on hilt repair.
270 2	70 Broaddenstown*	Dublin	NMI R1234		276/4		Bl (no tip) & hilt	594	25	52	Khaki	2:4 IR	3 pieces, broken. Edge damage			Co Westmeath as findplace	
270 2	76 Bradderstown* 77 Ladestown* 78 Unp* 9 Unp*	Westmeath	NMI 1881:181		277/4		Complete	416	22	40	359 Black	02:02:00	Good	NMI label: 'Taken out of Lough Ennell near Ladies (sic)		illiopiace	
280 2	77 Ladestown* 78 Unp*	Westmeath	NMI R2303 NMI R2222		279/4		Complete	470 578	39	44 46		3:2(+2bl) 2:6	3 pieces soldered together. Tang repair	Town, by a farmer spearing eels'			Mile to the control of
		Westmeath			2/9/4		BI & lower hilt Complete 3 pcs	5/8	39	40			7 pieces, soldered together.				Why is the upper hilt missing?
	80 Unp*		Alnwick Castle 389	Walker?	280		no tio Bl & lower hilt.	542	41	46	550 Dk khaki	2:2(+2bl)	Hilt of visible.				Slightly concave hilt flanges
_	81 Unp*		Alnwick Castle 390	Walker?	281		2pcs Tang & tip	4/4	34	46	Dk brown	7:6	Slight hilt o/l. Modern blade join.				BI join looks modern, but hilt casting
	82 Unp*		Alnwick Castle 392	Walker?	282		missing 3 pcs, poss 2	452	25	42	Dk brown	02:02:00	Worn & damaged. Hilt repair.				genuine. Lower bl profile wrong. Join modern.Upper
	83 Unp*		Alnwick Castle 393	Walker?	283		swords	495	38	43	Dk brown	2(+1bl):2(+4bl) 2R	Good hilt with stub rivet. See res notes				bl & hilt OK Odd. Hilt blanks indicate non-use, edge
	84 Unp*		Armagh PL 110	Beresford	284		Complete	579	39	23	576 Dk brown/khaki	2(+1bl):1(+5bl)	Twisted tang. Edge damage. Worn bl.				damage suggests use. Note edge damage. Possibly a copy as no hilt outline. Heavy for
287 2 288 2 289 2	85 Unp* 86 Unp*		Armagh PL 133 Armagh PL 138	Beresford Beresford	285 286		Complete Complete	500 450	39 38	47 47	614 Black 460 Cleaned. Some black	02:02:00 c p 2(+1bl):2(+2bl)	Smooth surface. Possibly a copy. Fine condition. Tang repair.				the size.
	87 Unp*		Armagh PL 134	Beresford	287		Complete	597	37	49	610 Khaki, cleaned	02:02:00	Hilt repaired twice. Hilt outline visible.				Similar in section & condition to E291 &
	88 Unp*		Armagh PL 139	Beresford	288		Hilt & upper bl	213	-	53	Dk brown	2 (+1bl):29=1bl)	Some bz d		 		E289. Can only possibly fit E289 Similar in section & condition to E291 &
291 2 292 2	89 Unp* 90 Unp*		Armagh PL 111 Armagh PL 237	Beresford Beresford	289 290		Bl fgt Hilt & Blade	162 378	41	49	Dk brown Dk brown	02:02:00	Some bz d Partial hilt ouline visible. Thick hilt.				E288. Can only possibly fit E288 Dihed hilt edges.
202	91 Unp*		Armagh PL 112	Beresford	291		BI fgt	100			Dk brown		Some bz d				Similar in section and condition to E288 & E289, but does not and can not fit.
294 2	92 Unp* NOT IN MUSEUM 93 Unp*		NOT IN ARMAGH PL	Beresford	293		Lower bl fat	143	-		Black, patchy					Weatherup (1978) 38	Marrue Gangie Bargeford Collo
296 2	94 Unp*		Armagh C 30-1955	Beresford (M)	242		Hilt & upper bl	241		£1	Brown	03:04:00	Edges damaged both sides.			Weatherup (1978), 30	Bought from Mrs Rice of Reading. Note in Cat states ex Marcus Beresford Colln
	95 Unp*		Armadh C 175-1935	- arearony (WII	295		Bi fot	161	26	91	Brown	2204.00	Blunt, worn edges			Weatherup (1982), 62	Genuine piecs which don't fit! Bevels wider
298 2	96 Unp*		UM 1510A		296		3 pieces	426	28	48	354 Dark brown	02:02:00	3 pieces which don't fit				on bottom two sections
299 2	97 Unp*		UM 1510B		297		Complete	441	33	45	480 Dk brown	2(+1bl):2(+2bl)	Heavy & crude edges.		ļ		Looks OK, but a bit heavy. Ricasso looks a bit iffy. May be a copy Looks OK as complete sword but ions are
300 2	98 Unp*		UM 1510C		298		4 pieces	431	33	39	Dk brown		4 pcs . Corroded bl, porous surface				modern.
301 2	99 Unp* 00 Unp* 01 Unp*		UM 6:64		299		Blade	482	43	49	Dk brown		Good cast. Modern handle				Hilt has been altered to take modern handle
302 3 303 3	00 Unp* 01 Unp*	Grainger Grainger	UM 3884 (6-9) UM 3890 (6-10)		300 301		Blade fgt Blade fgt	392 333	40 30		Dk brown/green		Very worn and damaged Very worn and damaged				
304 3	03 Nr the Shannon'*	?	UM 1911-37	BHHPS	303		Complete	527	29	46	470 Dk brown, almost bla	ck 3:4 (+2bl)	Hilt outline on one side only.				Hilt repair? Note strange lobsided hilt section.
305 3	04 Unp*		UM 1911-38	BNHPS	304		Bl,shs & lower hilt	594	48	46	Dk brown on hilt		Blade partially cleaned.				Nice wide and well marked edge bevels. Thick hilt cross section. Sh repair?
306 3	06 Unp* 06 Unp* 07 Unp* 08 Unp* 09 Unp* 10 Unp*		UM 1911:133C	BNHPS/Deramore	305		Hilt & upper blade	209		47	Dk brown	02:02:00	Well cast: good detail. Patchy bzd				
307 3 308 3	06 Unp* 07 Unp*		UM 1911:133D UM 1911:133B UM 1911:133E	BNHPS/Deramore BNHPS/Deramore	307		Upper bl & shs Blade & shs Sh fgt	263 528	38	55	Dk brown Dk brown	?:4	Shoulder & edge damage, Corroded.				Hilt outline visible
309 3 310 3	08 Unp* 09 Unp*		UM 1911:133E UM 1911:133F	BNHPS/Deramore BNHPS/Deramore	308 309		Sh fgt Blade fgt	106 216	33		Dk brown Black, patchy		Corroded surface. Corroded & repaired worn fgt Corroded edges				
311 3	10 Unp*		UM 1911:133G	BNHPS/Deramore	310		Blade fgt Bl & shs. 2	200	34		Dk brown		Badly damaged edges				
312 3 313 3	11 Unp* 12 Ireland 13 Unp* 14 Unp*		UM 1911:166A UM 1911:166B	BNHPS/Benn	311		pieces	528	37	47	Dk brown	7:4	Modern soldered join. Worn blade				
314 3 315 3	13 Unp* 14 Unp*		UM 1911:166C UM 1911:166D	BNHPS/Benn BNHPS/Benn	313 314		Bl/sh fgt Blade & shs	375 466	37	49	Khaki Dk brown	2-2	Corroded and rough surface Worn blade & shs				
	15 Unp*		UM 1911:166E	BNHPS/Benn	315		Blade & shs Bl & shs. 2 pieces	395	31		Dk green	1.4	Corroded surface, cleaned				Remains of solder at join indicates modern
317 3	16 Ireland		UM 1911:170	Divin O'Dain	316/4		Dicoca	000	- 01		DA GIOCH		corroded surface. cicumed				E has acc no UM 102:1906. Renumbered by
318 3 319 3	17 Unp* 18 Ireland		UM 102.06E UM 104:1906	Claverty	04074		Hilt & upper bl	276		48	Dk brown	06:05:00	Rough casting but looks gen.				UM. Originally my no. 945
	19 Unp*		UM 476:1937		319		Complete. 2 pieces	ene	20	- 44	442 Dk brown	3:3 (+1bl)	2 pieces. Sig edge damage				Nice sword, well finished. Good example of its type. Dished flanges.
			UM 468.1937	Buick	320		Bl,shs & lower hilt	495	24	40	Dk brown	02:02:00	Minor edge damage both edges				Buick Collection no.294' on label
322 3	20 Unp* 21 Ireland* 22 Unp*		UM 471:1937A	Johnston?	321		Complete	474	35	43	484 Dk brown	2:2 (+2bl)	Faint hilt of visible				Buick Collection 110.254 on label
323	22 Unp		UM 473:1937		322		BI & shs	484 510	31	45	Dk brown		Damaged hilt & v wom blade.				Looks genuine-shame that the hilt was
324 3 325 3	23 Unp* 24 Unp* 25 Unp* 26 Ireland*		UM 475.1937B UM 195-1951B	Fetherston	323 324		Blade Bl fot	284	40		Dk brown Dk green		Modern hilt. Minor edge damage Verv corroded edges				butchered.
326 3 327 3	25 Unp* 26 Ireland*		UM 195-1951A UM L10:1955B		325 326		Sh fat Fat bl & hilt	92 446	34	52 49	Dk brown Dk brown	7:4 03:06:00	Hilt repair Edges worn. Dished hilt flanges				
328 3	27 Ireland*		UM 210:1955		00014		Hilt & upper blade	174		45	Dk brown, cleaned	02:02:00	Modern bl alteration, Casiting flanges.		L		Blade section very flat suggesting copy, but edge & ricasso detail good.
	28 Ireland 29 Unp		UM 211:1955 Bristol E175		328/4 329/4				_								
331 3 332 3	30 Unp 31 Unp		Bristol E177 Bristol 7:863		330/4 331/4												
333 3	32 Ireland*		Camb MC99.187		332/4		Complete, 2 pcs	421	38	37	296 Green, some bzd on l	hilt 02:02:00	Rough casting. Pronounced midrib				
334 3 335 3	32 Ireland* 33 Edenderry* 34 Edenderry* 35 Edenderry* 36 Edenderry* 37 Edenderry*	Offaly Offaly	Camb MC99.188 Camb MC99.189		333/4 334/4		Hilt & upper bl Bl & shs	261 450	43 38		Dk brown Khaki	03:06:00 ?:2	Shiny surface, slightly pitted & scratched Shs & bl corroded & damaged. BzD				Thick hilt section
336 3 337 3	35 Edenderry* 36 Edenderry*	Offaly Offaly	Camb MC99.190 Camb MC99.191		335/4 336/4		Shs &upper bl Hilt fat	121 84		43 45	Khaki Dk khaki	?:2 (+4bl)	Rough surface Minor corrosion				
338 3 339 3	37 Edenderry* 38 Ireland*	Offaly	Camb MC99.192 Camb FB239:PB148		337/4 338/4		Bl fat Complete	100 585	34 39	48	Khaki Dk brown	02:04:00	Rough surface Some bzd on bl	Ireland 48' written on blade			Heavy hilt
	39 Ireland*		NMD I.128		339		Complete in 2 pcs	504	35	47	485 Dk brown	2 (+2bl):2	Heavy thick hilt, could be copy.	Mus cat has old no as J1/10495			Heavy, rough hilt. Many small nicks along b edges. Not happy with hilt.
241 1	40 Ireland*		NMD OA VII J4		340		Bl fgt	292	36		Dk brown, patchy		Edges flattened nr top of blappears modern.	13036' written on blade. Mus Cat shows acquired in 1853no other info			
342 3 343 3	41 Ireland* 42 Ireland NOT FOLIND @ MLIS		NMD OA VII 5 Cork L188:60		341 342/4		Bl fgt	173			Dk brown		Edges flattened nr top of blappears modern	No acc no in E's Cat.	_		
344 3 345 3	43 Ireland NOT FOUND @ MUS 44 Unp*		Cork L188:61 Cork 1777:1973		343/4		Hilt & upper bl	199	-	46	Dk khaki	03:02:00	Cast on hilt repair				Old acc no L188:62
346 3	45 Unp* 46 Ireland NOT FOUND @ MUS		Cork 1777:1974 Cork L188:65		345/4 346/4		Bl fgt	255	15		Dk khaki						Old acc no L188:64
348 3			Cork L188:66 Cork 1777:1972		347/4		Upper bl & shs	148	44		Khkai	?:2(+2bl)	Pock marked surface				Old acc no L188:71
350	47 Ireland NOT FOUND @ MUS 48 Unp* 49 Ireland* 50 Ireland*	ĺ	Cork L1963:15		349/4		Complete, 2	475	40	40	Dk khaki, patchy	7:2(+2bi) 3:2 (E)	Post 1965 hilt	Ireland' written on bl			Old acc no L188:74
351 3	50 Ireland*		NMI P245		350/4		DCS BI & lower hilt		40	46	Dk khaki patchy Dk khaki	3:2 (E) 3:3 (+3bl)	Pitted surface. Castno flaw holes on hilt	NAMES OF DESCRIPTION OF DESCRIPTION OF THE PERSON OF THE P			
352 3	51 Ireland*		NMI P246		351/4		BI & lower hilt	536	33		606 Black	?	No tip & hilt altered		ļ		Nice HaC blade, but hilt has been alteredlooks like modern alteration
353 3	52 Ireland*		NMI P247		352/4		Fragmentary	449	24		247 Black	2(+2bl):2(+2bl)	Blade worn: some corrosion		1		Appears to be 4 pieces soldered together. Blade appears to be from different sword.
	53 Ireland*		NMI P248		353/4		Poss 2 swords	424	32		309 Black	02:02:00	Dam sh & hilt. 2 pieces. Edge damage				Appears to be bl & hilt from 2 weapons, as they are of diff thicknesses
354 3	54 Ireland*		NMI P249 NMI R364		354/4 355/4		Bl & shs Bl & hilt fat	332 179	26	38 44	Black Dk brown	7:4 7:2	Very worn blade Pitted bl surface, rough hilt surface				
354 3 355 3	55 Ireland*		NMI R365		356/4		Bl fat Complete	199	39 37	45	Dk brown	2:2 (+1bl)	Edge damage both sides 2 pieces. Break in blade looks modern	<u> </u>			Strange break, Worn edge
354 3 355 3	55 Ireland* 56 Ireland* 57 Ireland*		NMI R2221		357/4												
354 3 355 3 356 3 357 3 358 3	58 Ireland*		NMI R2221 NMI W3 NMI W8	Wilde Wilde	358/4 359		Complete Bl & lower hilt	629 556	43		678 Dk brown Black, patchy	03:06:00 7:2	Good casting in good cond. Edge nicks Modern plate joins blade. Edge damage				Modern hole on blade
354 3 355 3 356 3 357 3 358 3	58 Ireland*		NMI R2221 NMI W3 NMI W8 NMI W9	Wilde Wilde Wilde Wilde	358/4		Complete BI & lower hilt BI & lower hilt Complete	629 556 531 544	43	51 50 41	678 Dk brown	03:06:00 7:2 2(+1bl):2	Good casting in good cond. Edge nicks				
354 3 355 3 356 3 357 3 358 3	55 Ireland* 55 Ireland* 57 Ireland* 57 Ireland* 58 Ireland* 59 Ireland* 59 Ireland* 59 Ireland* 50 Ireland* 61 Ireland* 50 Ireland* 61 Ireland* 64 Ireland* 65 Ireland* 66 Ireland*		NMI R2221 NMI W3 NMI W8 NMI W9	Wilde Wilde Wilde Wilde	358/4 359 360/4		Complete Bl & lower hilt Bl & lower hilt	629 556 531 544 449	43 43 38	51 50 41 51 49	678 Dk brown Black, patchy Dk brown	03:06:00 7:2 2(+1bl):2	Good casting in good cond. Edge nicks Modern plate ioins blade. Edge damage Hilt repair. Rough & pockmarked surface				Modern hole on blade

	В	С	D	E	F	G	H Bl/Hilt & upper	_	J	(L	М	N	0	P	Q	R S
368 3	66 Ireland* 67 Ireland* 88 Ireland*		NMI W26 NMI W27 NMI W53	Wilde Wilde	366 367/4 368/4		BI & lower hilt FAKE	482 454 443	32 30	43	Dk brown Black	1(+1bl):2(+2bl) 03:02:00	03:06:00 Hilt repair. Very corroded			2 diff weapons? Patina is similar however
	is Ireland*		NMI W45	Wilde	369/4		FAKE	443								Wilde Cat. 443-Fin 316
371 3	"0 Ireland"		NMI W57	Wilde	370/4		BI & lower hilt	495	36	43 452	Cleaned	02:04:00	Worn. Porous surface			Pockmarked surface 2 pieces joined poorly together do appear to
372 3°	71 Ireland* 72 Ireland* 73 Ireland* 74 Ireland* 75 Ireland		NMI W60 NMI W74	Wilde Wilde	371/4 372		BI & lower hilt BI fot	434 91	34 33	46	Cleaned Black	02:02:00	Hilt repair. 2 pieces	E has 'mav have been found in Co Cavan'		be from the same sword.
374 3 375 3	'3 Ireland*		NMI W75 NMI W78	Wilde	373/4		Hilt & bl fat Hilt & upper bl	188			Dk brown Dark khaki		Genuine hilt repair. Bl cut down Feels heavy. Grip outline visible.	Old label: 'Sir B Chapman'		
			NMI W81	Wilde	375/4		Upper bl & hilt									
378 3	76 Ireland*		NMI W82 NMI W83	Wilde Wilde	376/4 377/4		fgt Bi fgt	157 234	27		Dark khaki		Corroded			
379 3	78 Ireland*		NMI W88 NMI W91	Wilde	378/4 379/4		BI & shs	390			Black Black	7:2	Very corroded Badly corroded			Soldered together but patina suggests they belong to the same sword
381 3	in Ireland*		NMI W93		380/4		Complete Complete (no	436 459	26	42 432	Black	02:02:00	Sig edge damage to both edges			2 pieces soldered together. Hilt repaired. Rivet diam 3mm. 2 out of 3 are stub rivets.
	80 Ireland*		NMI X6		381/4		FAKE Upper bl & hilt	400	30	42 402	DidUK	02.02.00	Sid educ dalifade to bost eddes			Rivet drain 3mm. 2 dut or 3 are stub mets.
383 31 384 31	12 Ireland* 13 Ireland* 14 Ireland 15 Ireland* 16 Ireland*		NMI SA1913:86 NMI SA1913:88	O'Meath Park. Co Lo O'Meath Park. Co Lo	382/4		fat	180 182		45	Dk brown Dk brown					
385 31 386 31	84 Ireland 85 Ireland*		NMI X7 NMI 1875:115		384/4 385/4		Upper bl & shs Blade fgt	158	31	52	Dk brown Dk khaki	02:02:00	Vestigial sh holes vis. Poss a reolica Edge damage both sides			
300	7 Ileianu		NMI 1877:56 NMI 1880:24		386/4 387/4			580 637	41	48 876	Black	2(+1bl):2(+2bl)	Heavy cast hilt. Wom bl edges.			
389 31	88 Ireland* 89 Ireland* 90 Ireland*		NMI 1882:184 NMI 1882:185		388/4 389/4		BI & lower hilt BI fgt	452 214	30 33		Black	2(?):2	Constitution About			Significant edge damage
391 31 392 31	91 Unp*		NMI 1882:186 NMI 1882:186a		390/4		Bi fgt Bi fat	82 75			Black Black		Corroded edges & bzd Corroded edges			Does not fit 186a (E391) Blade corroded & bevels barely visible. Edg
304 31	32 Ireland* 33 Ireland*		NMI 1886:87 NMI 1890:34		392/4 393/4		Complete Blade fot	476	33		Black Dk khaki	03:02:00	1 sh damaged & sig edge damage Wide blade: some bzd.			damage extensive
395 3	34 Ireland*		NMI 1893:2		394/4		BI & shs Complete (no	377	32	42	Black	2:4	The same some out.			Is this part of the
396 31 397 31	95 Ireland* 96 Ireland*		NMI 1896:6 NMI 1897:173		395 396/4		tip) Blade fgt	495 225	37 35	42 525	Black Black	3:4 1R	2 piecesmodern join	LABEL HAS DOWRIS. CO OFFALY		Dowris hoard? Nice HaC point
398 31 399 31	ireland* 6 Ireland* 70 Ireland* 8 Ireland* 99 Ireland*		NMI 1906:225 NMI 1906:226		397/4 398/4		FAKE Blade fgt	271	34		Dark khaki					
			NMI 1906:227		399/4		Blade fgt Upper bl & hilt	247	29		Khaki					
401 41 402 41	00 Ireland*		NMI 1906:228 NMI 1918:5		400/4 401/4		fgt Blade fgt	131 200	32		Dk brown Dk brown	7:2	Hilt repair. Large rivet holes			
404 41	33 Drumcrample*?	ermanagh	NMI 1885:115 NMI 1947:8		402/4 403/4		Shs & upper bl Complete	142 508	39	48 595	Khaki Black	02:04:00	Damaged edges & rough surface Minor edge damage. Good hilt ribs		2 sws E403 & E153	
406 41 407 4			NMI 1947:9 NMI 1957:145 NMI 1959:169		404/4 405/4 406/4		Complete Up bl & shs Blade	506 207 190	32	48	Black patchy Black Black	2(+1bl):4 2(?):2	Worn blade: minor edge damage		2 sws E403 & E153	
	07 Ireland*		NMI 1959:169 NMI 1959:175	Dr Leeper, Dublin	406/4	- 1	Complete, tip broken	470	39		Black	2(&2bl): 2(&1bl)	Very good, but heavy, Genuine?	This sword was formerly in the collection of Dr Leeper, Dublin' (NMI card index).		Edge damage. Nice blade section. Holes look drilled. On balance, genuine
	08 Ireland		NMI 1959:175 NMI 1959:623	Dublin	408/4	İ	Hilt & upper bl	270	35	42	Black	2(±1bl):4	Hilt repaired			look drilled. On balancedenuine. Hilt repairedapperas to be reused from other weapon. Edges slightly dished.
			NMI 1959:624		409/4		Part tang & blade		39	46	Black, patchy green		3 pieces, bent, soldered			
411 4 412 4	99 Ireland* 10 Ireland* 11 Ireland* 12 Doonally 0		NMI X8 NMI X9		410/4 411/4		Bl fgt Complete	131 626	47	50 398	Dk brown Brown	3:6 (+2) 7R	Machined hilt. Poss a replica			Gundlingen section and shape
413 4	2 Doonally (Salway	NMI	Grierson	412/4	1	Complete (no	f						Ex Grierson Mus, Thomhill, Dumfriesshire		
	3 Ireland*		NMI X11		413/4	+	tip) Bl & damaged	459	25		Khaki	03:04:00	2 pcs. Modern bl ioin. Rough surface			
	4 Ireland*		NMI X12 NMI X13		414/4		hilt Bl (no tip) & lower hilt	494	32	41	Dk brown Mottled green/brown	1:4 (+2bl)	2 pcs: hilt broken. Cen ridge prominent Bl 2 pcs. Copy? Hilt repair looks cast on			
417 4 418 4	5 Ireland* 16 Ireland* 17 Ireland*		NMI X13 NMI X14 NMI 1881:183		415/4 416/4 417		Bl fot Bl fgt	95 236	28	42	Mottled green/brown Dk khaki Black	1.4 (+201)	BI 2 pcs. Copv? Hilt repair looks cast on Flattened end to bladeC19 mod?			Flattened area looks modern/C19
419 4	8 Ireland*		NMI X15		417		Hilt fgt	29	21	+	Brown	1				Plenty of small nicks along widest part of
	9 Ireland*		NMAS DM1	Bell	419/4		Complete	625	41		Black	1	1			blade. Hilt a bit rough. Very heavy, very shiny patina, holes neatly
	20 Ireland*		NMAS DM3	Bell	420/4		BI & Shs	544	_		Shiny black					drilled, edges rounde. Jooks like a fake Flattened lozenge. Bevel & midrib faint but
422 4	21 Ireland*		NMAS DM4	Bell	421/4		Bl & Shs	557		520	Black	 	V worn blade. Sword feels heavy			still visible. Good oval section with prominent flanges
423 4:	22 Ireland*		NMAS DM5	Bell	422/4		BI, Shs & broken hilt	576	43	52 630	Black					marked by change in patina. Blanks clear shoulders
424 4: 425 4:			NMAS DM6 NMAS DM7	Bell	423/4 424/4	= 1	BI & Shs BI & shs	520	35 39	50 448			Some green accretion			Mottled black patina
427 4: 428 ···	co ireland* 26 Ireland*		NMAS DM8 NMAS DM10 NMAS DM11	Bell Bell	425/4 426/4 427/4		Bl & Shs (worn) Complete Bl & Shs (worn)	478	36	528 39 394 37 412	Black Black Black, some accretion	2(+1bl):2				Very flattened cross section Flattened lozenge section
	27 Ireland* 28 Ireland*		NMAS DM11 NMAS DM12	Rell	427/4	ľ	Complete	535	37		Black, some accretion	02:02:00				T O'Hara 1845' inscribed on blade both sides. 2 good little nicks
430 4:	P9 Ireland*		NMAS DM12	Bell?	429/4		Upper bl & shoulders	289	31		Black and brown mottle					Flattened oval with good bevelled edge
431 4	0 Ireland*		NMAS DM20		430/4		Blade Upper bl &	207	43		Dk brown, mottled					Hitt slightly skewiff. Slightly dished hilt
432 4: 433 4:	81 Ireland* 82 Ireland*		NMAS DM21 NMAS DM22		431/4 432/4		shoulder Blade	186 185	44		Khaki Dk brown, smooth	02:02:00				flances HaC blade
434 4: 435 4:	33 Ireland* 34 Ireland*		NMAS DM24 NMAS DM25		433/4 434/4		Blade Blade	142 324	32		Black Dk brown		Worn & slightly pitted. Cleaned.			
436 4: 437 4:	11 Ireland* 12 Ireland* 13 Ireland* 14 Ireland* 15 Ireland* 15 Ireland* 16 Ireland* 17 Ireland* 18 Ireland*		NMAS DM26 NMAS DM28	Bell?	435/4 436/4		Blade Blade fgt	103			Black Khaki		Smooth surface			Distinctive wide bevel
438 4: 439 4:	57 Ireland* S8 Ireland*		NMAS DM29 NMAS DM31		437/4 438/4		Blade fgt Blade fgt	233 228	29		Khaki Khaki		Poor castng, lots of air bubbles Worn and pitted			N
			NMAS DM32		439/4		Upper bl & shs	200	20	46	Dk brown	2:2 2R	Pitted surface, hilt outline visible Pitted surface, some green accretion			May belong with E440 (DM 33)? Looks go but doesn't actually fit
442 4 443 4	99 Ireland* 10 Ireland* 11 Ireland 12 Ireland* 13 Ireland* 14 Ireland* 15 Ireland*		NMAS DM33 NMAS DK36 NMAS DM	Rell	440/4 441/4 442/4		Blade Hilt fat	328	Zä		Dk brown	2(+1bl)	r nuce surrace, some green accretion			
444 4	I3 Ireland I4 Ireland*		Harvard/NMAS?	Bell Wardell/Holmes	443/4 444/4		Hilt& upper bl		_	41	Dk khaki	3:3(+3bl)	Good hilt detail. Overlarge sh holes.			
			Leeds D1964.0279		445/4		Complete	484	47	32 470	Dk brown	1(+1bl):2(+2bl)1R	Hilt repair cast on.			NOT IN MUSEUM AUG 2012. E GOT
447 44 448 44	16 Ireland 17 Ireland NOT IN MUSEUM		Leeds Lim (Citv) 128		446/4 447/4											DRAWING FROM B ASSOC CARD CAT Herbert (1941). 84
	18 Ireland*		BM 63,1-22,117		448/4		Bl & lower hilt. 2pcs	436	36	44	Dk brown	2:2 (+2bl)	Modern blade join			
450 4	19 Ireland* 50 Ireland NOT FOUND AT BM		BM 78,11-1,202		449/4		BI & hilt (no tang)	578	45	50 854		03:06:00	V heavy & nicks on edge			May be a copy but looks OK.
			RW DOT 101		450/4		Bl & hilt, no	054			Mark the same		Description 100 control			Couldn't be traced in Museum Feb 2013
452 4			BM POA 181		451/4		terminal Complete	354 644	43	52 784	Khaki/green Dk brown, amost black	2bl:2 03:06:00	Rough surface. Hilt repair?			V heavy, unusual strengthening ribs, cast flances on edge. Poss copy
454 45 455 4	33 Ireland 34 Ireland		Newburv Newcastle 78		453/4 453/4		Complete	544	43	uz /84	DA DIOWN, amost black	03.00300	pi euues rounded. Some bzd.			Coohlan (1953), 99
456 41 457 41	iii Ireland		Newcastle 79 Newcastle 81		455/4 456/4			ļ				1				
458 45 459 45	57 Ireland 58 Ireland		Newcastle 84 Newcastle 86		457/4 458/4											
460 41 461 41	9 Ireland 0 Ireland		Ashm 1911:604 Ashm 1927:2889		459/4 460/4											
462 41 463 41	1 Ireland 2 Ireland		Ashm 1928:2890 Ashm 1927:2894		461/4 462/4			3								
464 4	33 Ireland 34 Ireland		PR Oxford 1491:1500 PR Oxford 1502		463/4 464/4											
465 4	55 Ireland 66 Ireland		PR Oxford 1505 PR Oxford 1506:2618		465/4 466/4											
465 41 466 41 467 41			PR Oxford Private		467/4 468/4											
466 41 467 41 468 41 469 41	is Ireland															
465 44 466 44 467 44 468 44 469 44 470 44	88 Ireland 99 Ireland		Private	Ot	469/4	+	0	45-	-	40	Di	4000	ITTO A COLUMN TO THE COLUMN TH			Hole plugged in blade looks modern.
453 4:454 4:455 4:456 4:456 4:456 4:456 4:456 4:456 4:456 4:456 4:456 4:460 4:461 4:62 4:461 4:62 4:463 4:466 4:466 4:466 4:466 4:466 4:467 4:468 4:468 4:468 4:471 4:472 4:472 4:473 4:47	77 Heland 77 Ireland 70 Ireland 71 Ireland			Chapman?	469/4 471/4 472/4		Complete	469	30	43 447	Dk brown	1:2 3R	Hilt repair . 3 stub rivets, Worn & corroded			Hole plugged in blade looks modern. Samole taken? Knowles Cat, lot 658 Knowles Cat, lot 658

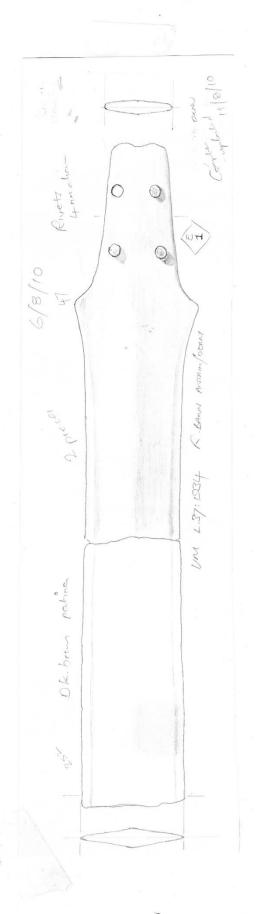
475 4 476 4	474 Lu	urg*	C Fermanagh	D NMI 1906:221	E	F 474/4	G H FAKE		J	К	L M	N	0	Р	Q	R	S
_	475 CI	Cloghan*	Mayo	NMI R1653		475/4	Comp (no tip)	400	Ė		Black	SE2	Hilt repaired; minor edge damage	E: 'Found at Cloghan Castle'			Is this an example of an earlier hilt with slot
	476 Le		Tipperary	NMI 1894:12		476	Complete	470	39	46	481 Black/khaki	SI:4	Hilt repair. Minor edge damage	NMI card: 'Legh Bog, Two Mile Borris'			reused on an EP sword? Blackmoor' hilt. Bl & hilt don't fit. Sh rivet
478 4	477 Ro	toughan*	Tyrone	Armagh C 66-1935	Robinson?	477	Hilt& u bl/blade	397	33	42	Brown	SI:2bl	Modern bl ioin. Hilt fat unused?			Weatherup (1982), 62	holes are bls. Rough cast, hilt fis visible
														Label on sw: 'From James Leadram Esq. Found with 4	4 other swords?		Heavy, but genuine. Hilt outline visible. Mus Cat Irish material from Roger Chambers
479 4	478 Ur	Inp* (Co Tyrone)	Tyrone	Alnwick Castle 387	Walker?	478	Complete	667	49	51	1036 Dk brown, cleaned	2sl:2	A fine sword. Minor edge damage	other swords in a tumulus in Co.Tvrone 1831'	Possibly E479 4 other swords?		Walker
							Complete (tip								Possibly E479 4 other sword? Poss		
		Inp* (Co Tyrone)	Tyrone	Alnwick Castle 388	Walker?	479 480/4	missing)	564	32	45	470 Dk brown, cleaned 516 Dk brown, patchy	2sl:4 03:06:00	Hilt repair & tip join. Both edges worn & serrated. Sh damagen	Poss found with E478	E479		
482 4 483 4 484 4	48U B2	Salteagh*	Derry	BM WG1227			Complete	629	37	44	516 Dk brown, patchy	03:06:00	Both edges worn & serrated. Sn damagen			Evans (1881), 291; Fig	
482 4	481 Lin	mavady	Derry	Ashm 1927:2891		481/4										354	Identical hilt to E560, longer bl. Bl shape &
483 4 484 4	482 Ur	np* reland*		Armagh PL 130 NMI 1890:32	Beresford	282 483/4	FAKE? FAKE	645	42		670 Green	03:06:00	Worn blade. Slightly kinky blade!				green patina suggest Cen Erpn origin.
405		ceand* Come Castle* Irumcallaun* Clonmeen North* Inp reland*		NMI W16	1417.4		BI, shs & lower	500	05		601 Dk brown		Man IPA and a			Bourke (2001), no.B108	Nice HaC point. Bevel noticeably narrower
486 4	485 Dr	rumcallaun*	Clare	NMI 1960:562	vviide	484/4C 485/4	hilt BI & lower hilt	511	35	4/	Dk brown/areen	2:4 1R	Worn. Hilt repair Corroded & edges damaged	E: 'Found on the shores of Drumcullaun Lough'		no.b108	one side
487 4 488 4	486 Cl 487 Ur	Ionmeen North*	Laois Cavan	NMI P1955:19 BACC	Farnham BACC	486/4 487/4	BI & bottom hilt	463	33	51	469 Black	7:6 4sh rivets & 1 hilt rivet i	n situ	Clonmeen North. Rathdownev parish			Wide bevels
489 4	488 Ire	eland*		NMI P241		488/4 489/4C	Complete Complete	549 585	36	48	706 Dk brown 669 Black, patchy	2(+1bl):5(+1bl)3R	Good cndition, well cast, HaC point				Dished rivets 32 diam. Grip outline visible. 20mm pin rivets. Flanges deeply dished
404	100 11	hand.		UM 3885 (6-82)	0	400	Complete	614	40		682 Dk brown	03:04:00	Good cast. Some cleaning				Note dished hilt edges. Slight hilt outline
491 4 492 4	490 Nr 491 Tip	ipperary	Donegal Tipperary	RUSI London 579	Grainger BACC	490/4		614	40	48	682 DK Brown	03:04:00	Good cast. Some cleaning				visible
493 4	492 ne	ear Athlone*	Roscommon	BM 63,1-22,115		492/4	Complete, 2 pcs	521	32	44	Dk brown	03:06:00	Rough surface				
494 4	493 Gr	Projecto*	Carlow	NMI 1930:518		493/4	44	595	30	55	731 Brown	2:4 4R	2 pieces & corroded	NMI card: 'Dredged from the River Barrow'		Report NMI (1930-1), 13: pl 3.3	Rivets 42mm diam. 2 x 130mm length; 2 x 140mm length.
7	130 01	angue	Curion	14111 1350.510		7227	77	555	- 55	55	701 Comi	2.7.75	2 Dices a contoca	TWI Cald. Diedded from the river ballow		10.010.0	Modern plaster cast hilt blades added. NMI
495 4	494 Nr	ır Tara*	Meath	NMI 1927:47		494/4	Complete	506	35		406 Black, patchy	3:6?	Surface corrosion			Mahr (1930), 75: pl 1.7	card; 'ex Naylor, Upper Liffey Street' Dubiou provenance.
496 4	195 Kr	(nocknacarrow*	Roscommon	NMI 1941:332		495/4	Complete	578	42	50	804 Black	02:02:00	2/boss 3 pcs. Edge flanges				V heavy. Edge worn & rubbed down. Holes 2mm diam. Pockmarked blade
497 4	496 Ire 497 Kil	eland*	Mayo	NMI R372 NMI W87		496/4 497/4		507 403	32	47	Black	3:4 3R	2 pieces, ancient break, Maior edge dam				1100 0 1000
			imayo				Upper bl & hilt										
499 4 500 4	498 Ire 499 Do	yano*	Meath	NMI 1897:48 NMI W59		498/4 499/4	fgt	202		42	Black	2:2 1R 3 diam	Hilt good. Upper bl edges delib damaged	Old label reads; "Mr Rothwell. Kells 1897"			
																	This is identical to W59. Ricassi odd shape
501 5 502 5	500 Ire	reland* Sortgole*	Antrim	NMI 1881:180 UM L24:1936		500 501	Bi & shs Bi & shs	472 524	33 24	43	Black Dk brown	2-6	FORGERY/REPLICA See research notes Worn blade & edging	E:'Found in the River Bann'			Blade shape OK, but wear patches not.
502 5	SU1 GC	ortgole:										7:0		E: Found in the River Bann		Wood-Martin (1886), 171: Pl 37.2	
504 5	502 To	oome* foome* lear Toome tiver Bann	Antrim Antrim	NMI W37 NMI W32	Wilde	502/5 503/5 504/5	BI & lower hilt Complete	678 654	32 28	59 54	Dk brown 618 Dark brown	7:2 1R 3 diam 2:4 ALL RIVETS	Hilt repair. Small casting flaws on bl. Hilt & tip repaired	E:'River Bann at Toome Bar'		171: Pl 37.2	Blade section worn.
505 5 506 5	504 ne	ear Toome tiver Bann	Antrim Antrim/Derry	Private BACC UM 104:1951		504/5											
	506 Cu		Antrim	NMI W36	Wilde	506/5	Complete	688	24	50	700 Black	2:4 2R	Shs damaged				Nice HaC point; edges undamaged; one sh damaged
508 5	507 Lo	ough Oughter*	Cavan	NMI W33	Wilde	507/5	BI & lower hilt	620	28	51	Black, patchy	03:06:00	Worn blade & shs. Accretion on hilt.	NMI card: 'Groomsport, Bangor, Ards Lower'			Beautiful section and edges
509 5 510 5	508 Gr 509 Pc		Down Fermanagh	NMI 1929:1501 Queen's Univ Belfast		508/5 509/5	Bl & shs	605	33	59	581 Dk brown	?:4 2R	Excellent blade	NMI card: Groomsport, Bangor, Ards Lower			
511 5	510 Ke	Keelogue Ford*	Galway	NMI W31	Wilde	510	Complete	631	29	56	563 Black	2:4 6R	Minor edge dam. Hilt & tang repairs.	E: "Found in the Shannon at Keeloge Ford"			Square 3mm diameter rivets, most rounded at tops. Good repairs
	511 Ra		Kildare	NMI W20	Wilde	531	Blade	535	25		Black		Shs and hilt damaged	E: ' on hard gravel under alluvium, in cutting a new course for the R Boyne.'			Nice slender HaC blade and tang
		2												Course for the Property.			Hilt sen from bl in NMI Rivets 3 mm diam
513 5 514 5	512 Ur 513 De	Inp* Derrycamagh*	Limerick Louth	NMI W38 NMI W35	Wilde Wilde	512/5 513/5	Complete Bl & shs	719 600	26	59 57	Black 572 Black	2:4 2 in tang 5R	2 pieces. Shs damaged			Wilde Cat. 445: fig 320	Nice hooked ricassi
	514 Ur		Mayo	Homiman		514/5	BI (no tip)& lower hilt	635	28	56	Dk khaki	02:05:00	3 pcs inc hilt repair. Cleaned surface				Edges heavily nicked.
		Cootehill*	Poscommon	NMI W34	Wilde	515/5	Complete	515	26	56	564 Black	2:4 (2 in tang)	Worn edges & bevel	NMI label: 'Cootehill Shoal, Boyle Water' (E has R Boyle)			Slight change in patina nr tip; evidence of chape?
_		Derrymaquirk*	P	NMI E20:877	***************************************	516/5	BI & hilt. No term.	000	20	- 00	Dk khaki	03:06:00	Rough surface. Serrated bl edges	E: Found on the shores of Lough Gara			Спарет
			Roscommon				Missing upper	000	33	60	DK NIGN	03.06.00	very worn, point bent; dark brown patina. 2 pin rivets in grip, 2x2 in shoulders, left outer rivet missing. Broad midrib tapering below inner shoulder rivets to narrow midrib reaching to lower grip rivet. Oval blade section with much				
		toosky Ford	Roscommon/Leitrim	Glasgow 1902.73ki	Anderson College	517/5	grip and butt	647	28	42	489		reduced remains of cutting edge.	E:From the River Shannon at Roosky Ford			Grooves worn. Rivets 3.5 mm diameter.
519 5	518 Tu	umna*	Roscommon	NMI W39	Wilde	518/5	Complete	750	33	56	873 Black, patchy	1:2 (1 in tang)	Minor edge damageclean blade			Pownall (1775):	Tang repair
520 5	519 Cu	ullen	Tipperary			519/5								Full details in Eogan (1983)		Wallace (1938)	
520 5 521 5 522 5	520 Cu	ullen	Tipperary			520/5								Full details in Eogan (1983)		Pownall (1775): Wallace (1938)	
522 5	521 ne	ear Athlone*	Westmeath/Roscommon	NMI P242		521/5	Complete	572	34	61	676 Black	3:6+2 on tang 7R	Beautiful weapon & rivets. Bl blemish.			Wilde Cat. 446:	
523 5	522 00	ear Athlone*	Westmeath	NMI W77	Wilde	522/5	Hilt & upper bl	305		50	Khaki	3(+2):6 6R	Twisted &bl damHilt dam at tano & shs.	E: 'Said to have been found with nos 523, 532 and 534'	4 swords522,523,524 & 532 (E)	Eogan(1983) Hoard no. 124	
	1	ILE PUBLICIE	Treatment.		***************************************	ULL U	Time de dobber by	505			To take	DIVELO DIC	TWISCO GOT GETTER THE GETTER CENTER.	E. Oud to have been board with hos best, side and 554	4 swords522.523.524	Wilde Cat, 446:	
524 5	523 Nr	r Athlone*	Westmeath	NMI W80	Wilde	523/5	BI & lower hilt	572	34	54	Black	7:6 4R	Bent blade & hilt broken. Twisted	E: 'Said to have been found with nos 522, 524 & 532'	4 swords522,523,524 & 532 (E)	Eogan(1983) Hoard no. 124	
525 5 526 5	524 Ur	inp*		UM 3890 (6-11)		524	Blade fgt	372	24		Dk brown/green		Worn				Looks like a rapier but just possibly an HaC blade.
526 5 527 5		reland*	Offalv	UM 475:1937A Camb MC99.183		526/5	Bl fgt Bl & shs	382 624	30	61	Dk brown 684 Green	7:4 4R R 0.28 diam	Good HaC beading Feels more like iron in weight			-	
7							5,44,5	4	31	- 01			and the state of t				Ann to Comb on loop C 11
528 5	527 Ire	reland NOT IN MUSEUM		Camb MC99.184		527/5						1					Acc to Camb on loan to Grange Heritage Centre but this has shut. SEE ENTRY IN E
528 5 529 5 530 5	528 Ec 529 Ire		Offaly	Camb MC99.185 Devizes		528/5 529/5	Complete	611	30	56	534 Black, patchy on blad	e 2:4 1K 2 small sh bis	Edges sharp but frizzled: poss hilt repair				
1	- [_		1 7						Wilde Cat, 445; fig 319: Evans (1881),	
531 -	530 6-	saland*		NMI W2	Wilde		Complete?	660		50	718 Black	2:8 1 in tang 10R	Modern metal hilt repair			295; fig 356: Raftery (1951) fig 209:	Pin rivets 1.8 mm diameter. Unusual combination. White accretion around repair
532 5	531 Ri	eland River Shannon*	Limerick		Wilde	531/5	BI & lower hilt	484	19	bu	Black	2:4 1 stub R	Rough surface on hilt. Edge damage			Wilde Cat, 445 fig 321:	ALCIENTI ALC
																Raftery (1951) fig 210:	R 3.2.m diamall deco heads. Note 1 offse
533 5	532 Nr	Ir Athlone*	Westmeath	NMI W 40	Wilde	532/5	Complete	756	35	60	852 Black	2:4 2 in tang 5R	Edging and bl damaged in central section	E: 'Said to have been found with nos 522, 523 & 524'	4 swords522,523,524 & 532 (E)	Eogan (1983) Hoard no. 124	Edging & bl clean except cracked mid section.
534 5	533 Ire	eland*		NMI W55	Wilde	533/5	BI & shs	583	30	50	667 Black	7:2	Worn blade. Iron oxide type accretion.				Rivet diam 3.6mm. Just possibly an IRON SWORD
535 5	534 ne	reland* sear Athlone* seland*	Westmeath		Wilde	534/5 535/5	Bl fgt	256 636	33 40	62	Black 802 Black	02:04:00	Shiny blade. Sig edge damage				Dead straight blade
				NMI 1890:35		536/5	Blade fot	220	29	JE	Khaki	T-MM	Nice HaC point. Narrow bl. delib edge dam				
538 5 539 5	537 Ire	eland*		NMI SA 1898:112		537/5	Complete	657	31	63	619 Dk brown	2:4 2R	2 pieces; hilt broken. Blade corroded.				Ricassi worn. Pin rivets 2mm diameter. 11mm & 14mm length.
539 5	538 Ire	sland*		NMI 1963:30		538/5	Complete	588	34	62	Black	2:5 3R 3 diam	Slight decression on blade. Mend?	E:'Found in the River Shannon near the sites of the old			Dished flance edges. Raised hilt terminal.
540 5	539 Kil 540 Ire	illaloe* eland*	Clare	NMI 1934:197 NMAS DM18	Bell	539/5 540/5	Complete Complete	589 700	34	61 51	782 Khaki Black	3+1:2 1R 3D 1:4 1r	Shinv surface: hit outinel vis: hilt repair	sluice gates at Killaloe'			Hilt has repair. Very slight bevelled dish
	541 Ire	eland		Hull 53		540/5 541/5							Di audana arasis 9 anatis - 4				- repair to a significant distri
541 5 542 5		siano-		BM 54,7-14,292 Private		542/5 543/5	Complete	584	27	48	496 Dk brown, patchy	2:4 4R R 0.28 diam	Bl surface crack & casting flaw.				
541 5 542 5 543 5 544 5	542 Ire 543 Ire	eland	Antrim/Down	UM		544/6		_		+				Old label: 'River Erne find Inishmore, Co. Cavan 3.12.37			Note on label: 'tang cracked not detached i
541 5 542 5 543 5 544 5 545 5	542 Ire 543 Ire 544 Ri	reland tiver Bann				545/5	Complete	456	33	47	445 Black	02:02:00	2 pieces, broken on hilt.	Pat Jos. Feehan'	E: Allegedly found with		Eogan (1965)' 2 pieces DO NOT fit but seem to be part of
541 5 542 5 543 5 544 5 545 5	542 Ire 543 Ire 544 Ri 545 Ini	eland (ver Bann ishmore*	Cavan	NMI 1937:3647			Little 0 mbm 11.1					1	Hilt repair. Edges badly damaged	1			Le paves do INO I III but seem to be part of
341 5 342 5 343 5 344 5 345 5 346 5	542 Ire 543 Ire 544 Ri 545 Ini 546 De	reland kiver Bann hishmore* Devil's Bit Mountain*	Cavan	UM 4022	Grainger	546	Hilt & shs / bl fat	157	40	53	Dk brown	2:2 1R	Fill leball. Eddes badiv daliladed		bz side looped sph.		the same sword. Square rivet 25mm diam
341 5 342 5 343 5 344 5 345 5 346 5 347 5 348 5	542 Ire 543 Ire 544 Ri 545 Ini 546 De 547 Ar	reland fiver Bann ishmore* evil's Bit Mountain* nneteer*	Cavan Tipperary Tyrone	UM 4022 UM 42:1936	Grainger	547	fot BI & shs	594		53 58	Dk brown	7:2	Hilt repair. Slightly porous surface.		bz side looped sph .		the same sword. Square rivet 25mm diam. 2mm diam pin rivet. Porous surface.
541 5 542 5 543 5 544 5 545 5 546 5 547 5 548 5	542 Ire 543 Ire 544 Ri 545 Ini 546 De 547 Ar 548 Ur	nishmore* Devil's Bit Mountain*	Cavan	UM 4022	Grainger	546 547 548	fat			53 58 52	Dk brown Dk brown 520 Dk brown	2:2 1R 7:2 1(+1bl):2	Hit repair. Slightly porous surface. Heavily notched bl edge. Modern join		bz side looped sph .		the same sword. Square rivet 25mm diam. 2mm diam pin rivet. Porous surface. Heavy hilt. Hilt outline and ricasso look genuine. Good shape hilt & shs
546 5 547 5 548 5	545 Ini 546 De 547 Ar 548 Ur	nishmore* Devil's Bit Mountain* unneteer*	Cavan Tipperary Tyrone	UM 4022 UM 42:1936 UM 3883 (6-2)		547 548	fot BI & shs Complete	594		53 58 52	520 Dk brown	7:2 1(+1bl):2	Hilt repair. Slightly porous surface. Heavily notched bl edge. Modern join		bz side looped sph.		the same sword. Souare rivet 25mm diam. 2mm diam bin rivet. Porous surface. Heavy hilt. Hilt outline and ricasso look ceruine. Good shace hilt & shs Delb damd & hilt slightly bent. Labe reads April 191 £3 101- Fenton 11, New Oxford St.
548 5 547 5 548 5	545 Ini 546 De 547 Ar 548 Ur	nishmore* Devil's Bit Mountain* unneteer*	Cavan Tipperary Tyrone	UM 4022 UM 42:1936 UM 3883 (6-2) NMAS A1891:78 Halifax 22 (AW78)/	Grainger ex RSM 1891:78	547 548 549/6	fot BI & shs	594		53 58 52 52	Dk brown	7:2	Hilt repair. Slightly porous surface.		bz side looped sph.		the same sword. Square rivet 25mm diam. 2mm diam pin rivet. Porous surface. Heavy hilt. Hilt outline and ricasso look genuine. Good shape hilt & shs
548 5 547 5 548 5	545 Ini 546 De 547 Ar 548 Ur	nishmore* Devil's Bit Mountain* unneteer*	Cavan Tipperary Tyrone	UM 4022 UM 42:1936 UM 3883 (6-2) NMAS A1891:78 Halifax 22 (AW78)/ Huddersfield	ex RSM 1891:78	547 548	fet Bi & shs Complete Complete	594		53 58 52 52	520 Dk brown	7:2 1(+1bl):2	Hilt repair. Slightly porous surface. Heavily notched bl edge. Modern join		bz side looped soh .		the same sword. Souare rivet 25mm diam. 2mm diam bin rivet. Porous surface. Heavy hilt. Hilt outline and ricasso look ceruine. Good shace hilt & shs Delb damd & hilt slightly bent. Labe reads April 191 £3 101- Fenton 11, New Oxford St.
541 5 542 5 543 5 544 5 544 5 545 5 546 5 547 5 548 5 549 5 550 5 551 5 552 5 553 5 553 5 553 5	545 Ini 546 De 547 Ar 548 Ur	nishmore* Devil's Bit Mountain* unneteer*	Cavan Tipperary Tyrone	UM 4022 UM 42:1936 UM 3883 (6-2) NMAS A1891:78 Halifax 22 (AW78)/	ex RSM 1891:78	547 548 549/6 550/6	fot BI & shs Complete	594		53 58 52 52	520 Dk brown	7:2 1(+1bl):2	Hilt repair. Slightly porous surface. Heavily notched bl edge. Modern join		bz side loaced soh .		the same sword. Souare rivet 25mm diam. 2mm diam bin rivet. Porous surface. Heavy hilt. Hilt outline and ricasso look genuine. Good shape hilt & shs Delb damd & hilt slightly bent. Labe reads April 191 £3 101- Fenton 11, New Oxford St,

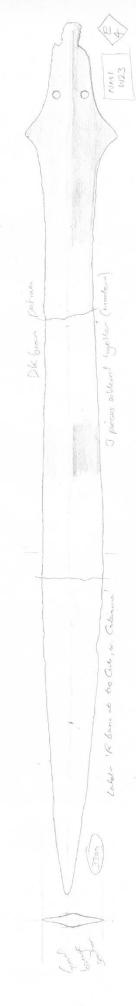
A_	В	С	D	E	F	G BI	H BI (no tip) & I	7	J	К	L	М	N	0	P	Q	R	S
	Drumauna*	Cavan	NMI 1960:725		554		hilt	549	43			Green	03:06:00	Both edges sig damage	E: 'Found in a rabbit burrow' E:'Found under about 1.20 metres of peat in a bog at Ards			
	Ards Beg	Donegal	Rossnowlagh D28		555	+ +		-					+		Beg, Gortahork' B: C19 drainage spread over Toome Bar bottom with			
557 556 558 557	Toome Bar* Ireland*	Antrim	NMIW11 NMIW14	Wilde Wilde	556 557		BI & shs BI & shs	492 470	46 45			Dk brown Patchy black	7:4	Surface corroded Pockmarked surface	other artefacts 0.3 to 0.9m under sand			Nice early lozence sectioned blade
	Portora*	Fermanagh	NMI 1961:6		558		Blade fot	276	41			Dk brown	1		B: Recovered from the bed of the Erne during dredging operations about 1860		Bourke (2001), no. E67	Narrow bevels
560 559	Downs?*	Offaly	BM 83.2-18.41		559	Cor	omplete. 2pcs	510	40	50	518	Dk brown, patchy	3:4bl	Modern bl ioin	Full story in Ecgan (1983), 117-8		Full list in Eogan (1983), no. 119	BM has this sword as Unpprobably a BM mistake
561 560 562 561	Unp*	Wicklow	Armagh PL 137	Beresford	560 561	FA	AKE No tang	583	41		592	Dk brown	03:06:00	Worn blade. Shape unconvincing				Identical hilt to E482. Blade is shorter though, and rather clumsy. An obvious copy.
502 502	lenland*		NMI W6		562		Complete	586	37	48	620	Black	03:04:00	Minor edge damage. Sh decoration				Same deco both sides. Looks like a copy bu appears genuine. Hilt outline visible
564 563 565 564	Lough Corrib Ireland*	Galway	Private NMAS DM30		563 564		BI & shs	315				Green, pitted surface	7:2	Very worn. Shs altered & damaged				
566 565	Ballinclemesig NOT@MUS	Kerry	Cork L188:73		565										E:'Found when digging a drain in a bog at Ballinclemesig'		Full list in Eogan (1983), no.119	
		Armagh/Monaghan		w	500		0	500				Pr. 1	0.0				Weatherup (1982), 62: Bourke (2001),	Unusual raised cent hilt rib.FAKE, but a good one. Hilt ridges heavy. Identical to
568 567	Unp*	Armagn/wonagnan	Armagh C 110:1935 NMI 1959:170	renison	500		Complete	590	20	40		Dk brown	02.02.00	Damaged shoulder	Found at Gruinard J.F 3.6 1864' (label)		no.B109 JRSAI 91(1961), 84-5	APPEARS TO BE A FAKEBLADE STRANGE SHAPE AND HILT TOO LONG
	Unp*	Longford	NMI 1959:171		568/4		Complete	398	32	40	271	Black/green	03.02.00	1 sh damaged	Fine bronze sword Co.Longford 1864' (label)		JRSAI 91(1961), 85; fig 19	Looks genuine but hilt very odd
	Unp*		Armagh PL 131	Beresford	569		complete (no tang)	590	40	51	608	Dk brown	03:04:00	Bl profile too thin below hilt				Hilt section has raised midrib. Identical to E566 in Armagh C. Looks C Erpn.
						Co	complete (no									E: 'Said to have been found in a cairn with two		REPLICA. Break from original visible in
	Rathcarrick*	Sligo	NMI 1939:69		570		tio)	554	40		847	Black	05:06:00	Blunted & heavy. REPLICA	Nothing on card. See associations. E: Museum register states Knocktemple, Co Wexfordthere is no such place'	bz axeheads'		csating below shoulders.
573 572	Knockatemple*	Wicklow	NMI 1915:11		571 572		FAKE								Wexford there is no such place'		Price (1935), 59, fn 63	
	Unp*	Armagh/Monaghan	Armagh C 110:1935	Tenison	574		FAKE										Weatherup (1982) .62	
	Holycross NOT IN MUSEUM	Limerick	UM 737:1954 Lim(City) 125		575												Herbert (1941), 83: O'Kelly (1945), 42	
577 576		Tipperary	UM 469:1927		576		FAKE								E:Said to have been found in the parish of Finnoe Found at Fintona, Co Tyrone, near Omagh, in bog. A K		17 (10 10)	FAKE. Holes drilled, odd shape to blade,
	7 Fintona*	Tyrone	NMI 1959:181		577/4	C	Complete	564	53	51			+		Young no.11 1848'			wide hilt Mus Cat: from Major Burges, Parkanaur, Co
	Unp*	Tyrone	Armagh C 5:1955	Burges		С	FAKE COMPLETE	-					+				Weatherup (1978), 38	Tyrone (large estate) Mus Cat: from Major Burges, Parkanaur, Co
580 579 581 580 582 581	Ireland*		Armach C 6:1955 Armach PL	Burges	580		FAKE FAKE	_					+					Tyrone (large estate)
583 582 584 582	I Ireland 2 Ireland* 3 Unp NOT DRAWN		UM 105:1906 UM 1911:167		581 582		FAKE	#										
	Unp NOT DRAWN		UM 1910-776 UM 4012 (10-2)		583 584		FAKE. Complete	547					1					Outline drawing only
586 585	Ireland		UM 4012 (10-2)		585		FAKE.	541					1		E: According to the Museum Register, this sword was			Comming only
	Ireland*		NMI		586		Complete FAKE.	480					+		found broken, in a turnulus' E:'According to the Mus Reg, this sword was found at			
	7 Sliabh Dá Chon*		NMI 1883:327		587		Complete FAKE.	580			680		+		Sliabh Dá Chon, 'The Dogs'			
	Ireland*		NMI 1883:326		588	-	FAKE.	574			820		+					
	Ireland*		NMI W70		589		Complete FAKE.	495					+					
	Ireland*		NMI W69		590	- '	FAKE.	615					+		E:16' below surface of Lisachrin Bog near Kilrea'hardly		Morris (1920), Fig p	
592 592	Lusachrin*	Derry	NMI 21:10		592		Complete	+					1		a genuine lish prehistoric piece' E(1983) '26/12/61 in a garden 36cm below the surface	E (1983): Plain leaf	321 JRSAI 94 (1964), 92: Eogan (1983)Hoard no	Note odd position of rivet. Hill has evidence
593 593	3 Blackhills*	Laois	NMI 1962:57		593		Complete	430	30	38		Green	2:2 (1 extra)	2 pcs. Edge damage.	E(1983) '26/12/61 in a garden 36cm below the surface naetly laid out side by side in a NE/SW orientation'	E (1983): Plain leaf shaped sph & SA	Eogan (1983)Hoard no .95 .IRSAI 94 (1964) 92-	Note odd position of rivet. Hilt has evidence of repair on top but tang appears 1 piece
594 59/	Ballyroe*	Limerick	NMI 1962:18		594/4		Blade fot	254				Dk brown		Rough surface	E (1983):In topsoil from stone quarry close together	Sph	Eogan (1983)Hoard	
595 597	Cooga*	Sligo	NMI 1942:1873A		595/4		Sh fat	103				Dk brown		Corroded	E(1983): 'Found in 1941 under a rock on the site of a cutaway bog during drain making'	2 xSA.Bz cake	Eogan (1983), Hoard no. 128	Founder's hoard? Studied by Alex Brea, Cork Univ July 2009
596 596 597 597	Ireland*	Antrim	NMI 1959:192 NMI 1938:44	Dr Leeper, Dublin Wallace	596/4	Sh	hs & upper bl Blade fot	288	38			Black Black & green		Shs damaged Sig edge damage	#1111.0E	***		
598 598	Unp*	Antrim	NMI 1938:45	Wallace		- 1	Complete Bl & shs	609	47	57	713		3:4 (+2bl)	Clean blade, some edge damage	Old labe reads; 'first broken up from old metal and then			
	Unp*	Derny?	NMI X17		599/4	Bi	REPLICA? lade & lower	497	39	52		Dk brown	7:2	Dull patina. 3 pcs. Modern breaks on bl	moulded'.			
600	Ireland*	Teneron	NMI X18 NMI X19		600/4	Co	hilt complete (no	493	34	46		Dis brown	7:2 (+2bl) 03:06:00	Rough surface; possibly a copy	E/Deshably found in the next			
602 602 603 6~	Unp* Caheraderry Broadlea Glenross	Tipperary Clare Donegal	NMI X19 NMI 1929:1407 Private (NMI files)		601/4 602/4 603/4		tip)	538	34	46		Dk brown, mottled	03:00:00	Possibly a replica, but a very good one.	E:'Probably found in the northern part of the county'			
604 60-	Gleomes	Donegal Fermanagh	Private (NMI files)		604/4			_						Hilt outline visible	E:'Found in a cut-away bog about two metres below the present surface'			Dished flances & HaC bl section.
605	Lisaminaun	Galway	Private		605/4			1						The second value	E:'Found in a boo' E:'Sw formerly preserved at Curragh Chase, Adare, &			The second of the DI SCORDI.
606 606 607 607	near Adare* Clondalee More* Bunnafinglas*	Limerick Meath	Lm(Citv) 174 NMI 1963:5		606/4 607/4		poer bl & hilt Blade fot	292 171	40	144		Dk brown Dk khaki	03:04:00	Bl edge damage, otherwise good Corroded surface	prob from this locality E:Found in a bog about 10' below the surface'			
608 608	Bunnafinglas*	Mayo	NMI 1963:71		608/4		Complete	478	33	44	521	Black/brown			Found in bed of R.Mov near the gravevard' (label) E: Found in the Black River, 300 yds from Shrule Bridge, rt			
609 609 610 610	Shrule Unp	Mayo Cork	Private PR Oxford 1487		609/4 610/4										hand side'			
611 611	Cullen	Tipperary	0	Or Out with 1 To	611/4										Full details in Eogan (1983)		Pownall (1775): Wallace (1938)	
612 612		Antrim	Ontario 913x11.13 Ontario 909.68.1	St Columba's Colleg	612/4			1					1		E/P:Seized in New Ross in the 1798 rebellion, previously		Pryor (1980), no.150	
614 614 615 64	New Ross Enniskillen	Wexford Fermanagh Offaly?	Ontario 913x11.2 NMI 1965:3	St Columba's Collec			Blade & shs	398	22	41		Black	1	Straight bl. good condition, slight nicks	fitted with a C18 leather grip			
614 614 615 615 616 616 617 617	Ireland?		Ontario 913x11.6	St Columba's Collec Sturge	616/4			030	53	7.				and a second contraction and a second				
	Fireland B near Armagh	Armagh	Ontario 913x11.1	St Columba's Collec	618/1	Ballintober	complete (no											Nice bevel edging on blade. Minor cracks in
619 619		Mayo	NMI 1963:70		619		tip) Blade fot	792 255	41 27	62	934	Dk brown Dk khaki	1:2 1 in tang	Modified to dagger	Card: 'Found in bed of R Mov'			blade.
620 620	Coolcronaun*		NMI X20		620				T	T								See E's notes. Hilt very wide and thin.
620 620 621 621	Ireland*		NMI X21		621/4		FAKE		T i							Another sword? (info in		
620 620 621 621 622 622 623 623	1. Ireland* Ireland* 2. Nr Armagh* 3. Tara?	Armagh Meath	NMI X21 NMI 1939:70 Plymouth 73.24.114		620 621/4 622 623		Complete	597	46	60	742	Bright green	2:2 (1 in tang)	An odd sword: see notes	Nothing on card. 'Armagh' written on sword.	Another sword? (info in E)		Patina unusual. Holes 3mm diameter
620 620 621 621 622 622 623 623	1. Ireland* Ireland* 2. Nr Armagh* 3. Tara?	Armagh Meath Sligo	NMI X21 NMI 1939:70 Plymouth 73.24.114 Met New York 48.157.2	Rell	621/4		Complete		46	60			2:2 (1 in tang)	An odd sword: see notes	Nothing on card. 'Armagh' written on sword.	Another sword? (info in E)		Patina unusual. Holes 3mm diameter
620 620 621 621 622 622 623 623 624 624 625 900	1. Ireland* Ireland* 2. Nr Armagh* 3. Tara?	Armagh Meath Sligo	NMI X21 NMI 1939:70 Plymouth 73.24.114 Met New York 48.157.2	Bell	621/4			597 551 482	46 37 37	60 34 58		Bright green Black	2:2 (1 in tang)	An odd sword: see notes	Nothing on card. 'Armagh' written on sword. NMI card: 'Owenmore River, between Cloonmanagh and Rathbaser'	Another sword? (info in E)		Paśna unusual. Holes 3mm diameter
620 620 621 621 622 622 623 623 624 624 625 900 626 901	I Ireland* I Ireland* I Ireland* Nr Armagh* Tara? I Rathcarrick I reland*	Meath Sligo	NMI X21 NMI 1939:70 Plymouth 73.24.114 Met New York 48.157.2 NMAS DM17 NMI 1935:21 NMI 1906:218	Bell	621/4	Ballintober	Complete	551		60 34 58		Black	2.2 (1 in tang)	An odd sword: see notes Good, except for broken hilt	NMI cast: Overmore River, between Cloonmanagh and Rathbaseri	E)		Patina unusual. Holes 3mm diameter Not in Eogan. Shs & hilt edge notched. 5 lines on blade: nicely flecked above ricassz
620 620 621 621 622 622 623 623 624 624 625 900 626 901	I Ireland* I Ireland* I Ireland* Nr Armagh* Tara? I Rathcarrick I reland*	Meath Sligo	NMI 1939-70 Phymouth 73.24.114 Met New York 48.157.2 NMAS DM17 NMI 1935-21 NMI 1906-218 NMI 1902-60	Bell	621/4	Ballintober	Complete Complete Complete	551		60 34 58 56		Black			NMI cast: Overmore River, between Cloonmanagh and Rathbaseri	Another sword? (info in E) 4 stone axeheads; 1 bz sph; 1 bz pin		Patina unusual. Holes 3mm diameter Not in Eogan. Sha & hill edge notched. 5 lines on blade: nicely flecked above ricasso End assocs number 55: n 63 and
620 620 621 621 622 622 623 623 624 624 625 900 626 901 627 902 628 903	Ireland* Ireland* Ireland* Nr Armagh* 3 Tara? Rathcarrick Ireland* Ireland*	Meath Sligo Sligo	NMI X21 NMI 1939:70 Plymouth 73.24.114 Met New York 48.157.2 NMAS DM17 NMI 1935:21 NMI 1906:218	Bell	621/4	Ballintober I	Complete Complete Complete Bi & shs	551 482 630		60 34 58 56 42		Black Black Black Black Black Black	SI:41R		NMI card: 'Owenmore River, between Cloonmanagh and	E) 4 stone axeheads; 1 bz	Route (2001) ex	Patina unusual. Holes 3mm diameter Not in Eogan. She & hill edge notched. 5 lines on Badde nicelat flecked above ricass more and the sheet of the s
620 620 621 621 622 622 623 623 624 624 625 900 626 901 627 902 628 903 629 904	Ireland* Ireland* Ireland* Ireland* Ireland* Ireland* 2	Meath Sligo Sligo Offaly	NMI 1939-70 Phymouth 73.24.114 Met New York 48.157.2 NMAS DM17 NMI 1935-21 NMI 1906-218 NMI 1902-60	Bell	621/4	Ballintober	Complete Complete Complete BI & shs Blade	551 482 630 345		58 56 42 48		Black Black Black oatchy Black	SI:41R	Good except for broken hilt	NM cast: Overmore River, between Cloorimanagh and Rathbawn' NM cast: Visinity of Kilicoam, Ferbane, Co Offlay' NM cast: Visinity of Kilicoam, Ferbane, Co Offlay' NM index: 1989 in Bord Na Mora bog 12 mile from	E) 4 stone axeheads; 1 bz	Bourke (2001), no. S127 Brindley and Lantino	Patina unusual, Holes 3mm diameter Not in Eggan, She & hilli edge notched, 5 lines on blade: nicely flecked above ricassor Find assocs number 55 to 99 and 61. Leather laces around hitL. Unknown whether Leather laces around hitL. Unknown whether Leather laces around hitL. Not Toeran
620 621 621 621 622 622 622 622 622 622 622	Jizeland" teland" teland" Ni Amangh" Tara? Rahcamick teland" Cloomanagh" teland" Kilcopan" Reask" Reask"	Meath Sligo Sligo Offaly Galway Clare	NMI 1939-70 Plymouth 73.24.114 Met New York 48.197.2 NMI 1935-21 NMI 1935-21 NMI 1936-218 NMI 1992-80 NMI 1970-218 NMI 1992-80 NMI 1970-218	Bell	621/4	Ballintober 1	Complete Complete Complete Bi & shs Blade Bi & shs	551 482 630 345 418		58 56 42 46		Black Black patchy Black Black Black Black Black Black	Si-4 1R ? ? or 3(+1bi)-4 1R	Good: except for broken hilt Blade good, hilt poor. Good condition	NMI cast: Owennow River, between Cloorimanagh and Rathbaen: NMI cast: Visinity of Kilicogan, Ferbane. Co Offsty NMI rade: 1989 in Borst Na Mora bog 1/2 mile from Sylamon, protecting from drain. See measeth notes. Found amongst repair phase timbers of a trackway in	E) 4 stone axeheads; 1 bz	S127 Brindley and Lanting 1998, 65; Brindley	Patina unusual, Holes 3mm diameter Not in Eogan. She & hill edge notched. 5 lines on Bladde inclut flocked above (icases consistences unknown. Leather laces amonth Hill. Unknown whether the control of
620 621 621 621 622 622 622 622 622 622 622	Jiseland" steland" Nr Amandr' Tana? Lashcarrick reland' Seland' Seland' Kidoogan' Koogan' Reask' Sahvater' Longfoot Pass North'	Meath Sligo Sligo Offaly Galway	NAII X21 NAII 1939-70 Phymouth 73-24-114 Nat New York 44-157-2 NAII 1935-21 NAII 1935-21 NAII 1992-20 NAII 1992-20 NAII 1992-10 NAII 1992-10 NAII 1992-25	Bell	621/4	Ballintober	Complete Complete Complete Bi & shs Biade Bi & shs Complete Complete Biade	551 482 630 345 418 511		58 58 42 46		Black Black Black satchy Black Black Black Black Black Black Corrosia	Si-4 1R ? ? or 3(+1bi)-4 1R	Good execut for broken hill Blade good hill poor. Good condition Eddes clean & sharp small nicks on bi	NMI cast "Overmore River, between Cloonmanagh and Rainbawri. NMI cast "Visinity of Kilingare, Festana, Co Offsh', NMI otest 1988 in Bord Na Mora bog 1/2 mile form Samon, promising from drain.	E) 4 stone axeheads; 1 bz	S127 Brindley and Lanting	Patria unusual. Holes 3mm diameter Nor in Eogan. Shi a hill edge notched. 5 Ilms on Hadde ricely Recked above ricesor Find associa number 55 pp 59 and 61. Lester's Lessen and 61. Lester's Lessen and 61. Based ricely Callenge, Co. Teperary Root data. 3mm. C. Holesge, Co. Teperary Root dam. 3mm. C. 14/decede dates ass anall excita 4 wood bedoed 912-87 IC 14/decede dates ass anall excita 4 wood bedoed 912-87 IC 14/decede dates ass
620 621 621 621 621 621 621 621 621 621 621	Jiseland" steland" Nr Amandr' Tana? Lashcarrick reland' Seland' Seland' Kidoogan' Koogan' Reask' Sahvater' Longfoot Pass North'	Meath Sligo Sligo Offaly Galway Clare Tipperary	NMI 1939-70 Plymouth 73.24.114 Met New York 48.197.2 NMI 1935-21 NMI 1935-21 NMI 1936-218 NMI 1992-80 NMI 1970-218 NMI 1992-80 NMI 1970-218	Bell	621/4	Ballintober	Complete Complete Complete Bi & shs Biade Bi & shs Complete	551 482 630 345 418 511		60 34 58 56 42 46 45		Black Black Black Black black Black	Si-4 1R ? ? or 3(+1bi)-4 1R	Good: except for broken hilt Blade good, hilt poor. Good condition	NMI cast: "Overmore River, between Cloommanagh and Rathbawn" NMI cast: "Vicinity of Killoogan, Ferbane, Co Offsty" NMI rokes: 1989 in Bord Na More log 1/2 mile from Sammon, providing from dam. See messich notes. Found amongst regain plase timbers of a trackway in Found amongst regain plase timbers of a trackway in Found amongst regain plase timbers of a trackway in Found amongst regain plase timbers of a trackway in Found amongst regain plase timbers of a trackway in Mill Mill Mill River Found in Mill Mill River Found in Mill Mill River Found in the District No. 10 mill Mill Mill River Found in the District No. 10 mill Mill Mill River Found in the District No. 10 mill Mill River Found in the District No. 10 mill Mill River Found in the District No. 10 mill Mill River Found in the District No. 10 mill River Found in the District No.	E) 4 stone axeheads; 1 bz	S127 Brindley and Lanting 1998, 65; Brindley	Patria unusual. Holes 3mm diameter Not in Eogan. She à hilt edge northed. 5 Ilms on Hadde riselv Reided above riseaso Find associa number 56 50 50 and 61. Lester's Lesser and 61. Lester's Lesser and 61. Based for patria (Lestera), Co. Tipperary, Roet dam 3. Jimm. C. 14/dender dates ass annial excisa 4 wood bende 912-87 CE 14/dender dates ass annial excisa 4 wood bende 912-87 CE 14/dender dates ass annial excisa 4 wood bende 912-87 CE 14/dender dates ass
620 621 621 621 621 621 621 621 621 621 621	Jistiand" Istiand" Ni Amagh" Tata? Rathcarrick Istiand" Cloormanagh" Istiand" Cloormanagh" Istiand" Istiand" Istiand" Lidoogan" Beask" Ballvatev" Londford Pass Nosth" Lullworde Bod"	Meath Sligo Sligo Offally Galway Clare Tipperary Kildare	NAII X21 MAI 1939 70 Fremouth 73 24 114 Mel New York 48:157 2 NAMAS DM17 NMM 1906 218 NMM 1906 218 NMM 1906 218 NMM 1908 109 NMM 1909 109 NMM 1909 58	Bell	621/4	Ballintober	Complete Comolete Bi & shs Blade Bi & shs Complete Comolete Bi & shs Complete Comolete Blade	551 482 630 345 418 511 469 325		60 34 58 58 56 42 46 45 45	446	Black Black Black patchy Black Black Black Black Black, orange corrosis Dik brown, oreen corro Khaki oreen Black, smooth	St.4.1R 2 2 ort 3(+1bl):4.1R	Good, except for broken hill Blade good, hill poor, Good condition Eddes clean & sharp small ricks on bi Size adde damage	NMI cast: Owermore River, between Cloorsmanagh and Rambisser; NMI seet "Visionity of Visionoper, Festeron, Cu Offsty", NMI select "Side in Boart Ne More long 1/2 mile from Samenon, promoting from drille. See research notes Found amongst report phase timbers of a trackway in Letteron Boart. Jellen Found in machinery at the Bord Na Mona works at Lethenize	E) 4 stone axeheads; 1 bz	S127 Brindley and Lanting 1998, 65; Brindley	Patria unusual. Hotes 3mm diameter Not in Eogan. She à hit edge notched. 5 lines on Hadde risoln fleshed albon ricesso. Find associa number 50 to 50 and 61. Lester's laces and the Lester's laces and 61. Lester's laces and hit. Unbrown wheter incent or ancient. Good Had. 50. She kind spot and Lesterys, Lo Tipperary. Rost dama 3.2mm. C14/dentifo dates ass annall excer's wood once 012-87 C14.

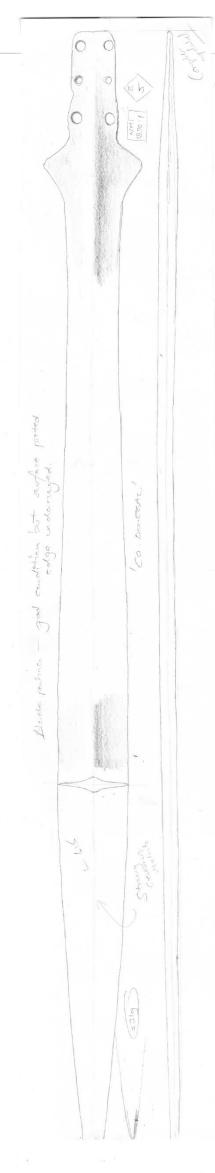
4	A	В	C	D	E	F	G	H Complete (no	f	J	K	L M N	0	P	q	R	S
		Ireland* Beltra Lough*	Mayo	NMI 1997:47 NMI 1999:22				tip) BI & shs	464 416	38 30	48	488 Black, green corrosion 02:04:00 Dk brown, green corrosion	Both edges badly damaged Corroded & bevels faint	NMI index: Found while swimming in lake			Rivet holes neatly drilled
		Barrybeg*	Roscommon	NMI 1982:70				Complete	517	37	43	483 Black, red corrosion 3:2 2R	3 stub rivets. Pink accretion on 1 side	B: Recovered during scuba diving in 1981 at Barrybeg		Bourke (2001), no. S119	Bevel narrows on blade: resharpened? Rivets 3 mm diameter
639 9	914 F	River Shannon* Killua Castle*		NMI E92:406	Chapman?		Upper bl & shs	Complete	648	30	55	648 Black 2:4 6R	Bl worn & pitted. Ricasso worn.	Old label on sw: 'in the River Shannon when it was run drv1839 to 1846'			R 3mm diam. Note blanks on shs. Can't find sw in Eogan.
640 9 641 9	915 F	Killua Castle* Mullans North*	? Wicklow	NMI E92:408 NMI 1982:96 NMI 1980:117	Chapman?			BI fat Upper bl & shs	268 237	29	42	Black Black	2 pieces. Modern ioin. Bl edoe damaged	NMI index: 'metal detecting at side of road'			Can't find in E. Slightly warped. Edges damaged.
642 9 643 9	917 0 918 L	Mulians North* Cam* Louha*	Longford Tipperary	NMI 1980:117 NMI 2002 C1:534				BI & shs Hilt fat	492 57	25	54	Dk brown/clean 7:4 Green	Minor edge damage. No ricasso Slight midrib still visible	NMI index: 'boa. 5 ft deep'			
	919		Wicklow?	NMI E92:407	Chapman?			Complete (no tip)	562	52	40) 550 Black/clean blade 2(+1bl):4(+2bl)	No tip & edge damage. Possible copy				Hilt outline visible & tang broken. Could be copy but details say genuine.
645	920 E	Ballinamore*	Leitrim	NMI 1988:33	Clarke			BI & lower hilt	437	40	44	Black , green corrosion 7:2 1R	Hilt repair. Corroded	Card: from island on Lough Feenagh. Bought 1988 as part of colln Noel Clarke			1 bent rivet 4mm diam
646	921	Tullowmacjames*	Tipperary	NMI 1986:53				Blade	460	33		Dk brown	Corroded & edge damage	NMI corr M Cahill visited site 1/6/84: 12 to 18 in deep nr poss 2 burnt mounds			
647	922	Carrickboy*	Longford	NMI 1987:78				Blade fgt	139			Black/ dk green	Corroded	Label: 'Metal detector material ex Phil Doyle, Corteen, Longford'			Catalogued with flint & stone axehead but no suggestion of association
648 9	923	Meelick*	Roscommon	NMI 1985:88	oxdot			BI & shs	389		44	Black patchy 7:2	Corroded. Sig edge damage	NMI index has 'bog, 1m deep' Donation from Sheffield Museum. Found c 1950			
II .														NMI index: Found with a metal detector on the banks of			Nr possible wooden trackway. Small 2006 excav prod 1200 to 820 BC C14. See NMI
649 9	924 1	Mayne*	Westmeath	NMI 2008:20				BI & shs	353		38	Dk brown ?:2	Green corrosion	the River Innv	?1 spearbutt: 2 sphs		notes
650 9	925 L	Lough Erne*	Fermanagh Cork	NMI 2008:86	Chapman?			Complete Sh fgt	601 140	41	52	505 Black 3:4 (+2bl)	Worn blade	Purchase from McGrath, Aberdeen. No. 88 in 1911 Colln of Dunroven Castlesee paper notes			Card needs to be seen, Not in Eogan. 127 in red paint on blade. 2 holes in bl (modern)
		Inishmore*		NMI E92:409 NMI E28:6	Chapman?			Blfgt	398	24		Green Dk brown	Very corroded Very worn	Label: 'James Kelly at Inishmore opp. Urney graveyard' E (1983): 'In a pit alongside a glacial erratic by a bulldozer	1 ring; 1 chisel; 1	Eager (1092) Heard	
653 9	928	Park* Ireland* Ballyharney*	Meath	NMI 1974:38 NMI W72	\vdash			Hilt & upper bl Complete?	198 636	25	43	Dk brown/green 2(+1bl):2 Black ?	Hilt repair. Corroded blade Original blade with modern handle	operative'	sunflower pin	Eogan (1983), Hoard no. 114	Well drawn in Hoards volume
655	930 E	Ballyharney*	Westmeath	NMI 1965:57				Complete	760	43	62	2 720 Black patchy St6 6R	Blade appears to have been cleaned	3 swords522, 523 & 524? (E) Old label reads in English: 'June 1, 1850. Brackstone Coll.		Engan (1985) 181-	Tang damage, otherwise good condition.
656 9	931	Aughrim*	Kerry	Berlin V.d.55	Brackstone			Complete	506	35	43	8 496 Brown 03:04:00	Faint hilt oil visible. Minor edge damage	no.4387		Eogan (1965), 181: Gerloff (1981)	Accurate drawing in Gerloff 1981 Slightly bent at break. Surface stressed.
657 9	932 1	Lough Leane*	Kerry	Berlin V.d.30a&b	1			Complete in 2 pcs	502	35	47	Dirty khaki 3:6 (see notes)	Corroded, striations on bl. Hilt repair.	Label reads: 'V-d 30a, Killarnev-See, Gesch Kerny'		Eogan (1965), 181: Gerloff (1981)	Notches & repair wire on hilt.Upper holes for repair?
658 9	933 (Cork	Cork	BERLIN? NMD?					F		-	+ +		Minor dredging of the Silees River by Dept. of Agricultre			
659 9	934 H	Killyhomon*	Fermanagh	UM A140.1990				Complete	497	34	44	452 Dk brown 2(+1bl):2(+1bl)	Hilt repair. Cracks on hilt	staff in 1990		Bourke (1994), 8.	Drawn at EnniskillenUM loan Drawn at EnniskillenUM loan. Slightly
	935 E	Enniskillen*	Fermanagh	UM A5.1980	!		<u> </u>	Bl & hiltno tang	620	42	53	Dk brown, shiny 2(+1bl):4(+2bl)	Shiny blade. Some pitting. Clean edges				bent. Nice edges & well made. Raised hilt outline as no 936
		Ireland*		Ballymoney BHC 1992.15				Hilt & shs	155			Brown, cleaned 03:04:00	Hilt repair. Cracks on hilt			Ramsey and Simpson (1990)	Note raised hilt outline, like E148 UM 581- 1934
		Ireland*		Ballymoney BHC 1992 13				Shs & upper bl	156		48	Khaki, cleaned ?:6	Pockmarked surface			Ramsey and Simpson (1990)	Doesn't fit 1992.14, but may belong to same sword as they appear similar
663 9	938	Ireland*		Ballymoney BHC 1992.14				BI fot	302	0		Cleaned	Shiny pockmarked surface			Ramsey and Simpson (1990)	Doesn't fit 1992.13, but may belong to same sword as they appear similar
	T								ΙΤ								Came from Earl of Caledon, Caledon House
	939 L			Armagh C 67-1968	Caledon			BI fat 3 pieces. 1	247	51		Dk brown	Some bz d			Weatherup (1975)	(Armagh or Twone?). Nice genuine bl.
	940 L			Lim(Hunt) HCA371			1	missing	632	51	63	Dk khaki Sl:2 (+2bl)1R 3.5D	Lacquered surface	Circumstances of acquisition u/k B: Recovered from spoil dredged from the lower Bann and		Bourke (2001),	A Ballintober sword not in E.
	941 F		Derry	UM A6992				Bl fgt Complete, no	167	37		Dk green	Surface accretion	dumped at Kilrea Bourke: from 'excavation of spoil dredged from lower		no.B110	Slight midrib. Rivet holes blocked with accretion. Well
		Gortgole*	Antrim	UM A7638		-		tip 3 pieces. Tip	532	40	49	628 Green/dk brown 2:2?	Accretion over complete sword	Bann & dumped at Gortgole'		Bourke (2001), no B99	cast. Twisted Tapered not leaf shaped bl. Rivets 0.3 mm
	943	:		UM A7034 UM A7034				missina Complete	582 639	50	55 61	Green/dk brown 2:4 5R 738 Green/dk brown SI:6	Some accretion. Worn bl edges Hilt repair. Hilt outline visible				(not pin). Bevels worn. Tang repair? Good casting, pockmarked surface.
670 9	945	Killaloe*	Clare	NMI 1974:29				BI, shs & lower hilt	361	35	40	Dk brown ?:2	No tip. Rough surface				
671 9 672 9	946 0	Unp* Cloghanmurray* Coleraine*	?	UM 89:1954 UM A121:1974	Robinson			Hilt & shs Bl & shs	157 423	30	48 44	Dk brown	Porous corroded surface Worn bl & shs. Minor edge damage	Label: 'Cloghanmurray, 1799'			2 stub rivets broken off in situ
	948	Coleraine*	Antrim/Derry	UM P200:1965 UM A5:1971				Complete Complete in 2	480	30	41	Dk brown 02:04:00	Worn bl. Hilt repaired. Xtra sh holes!	Label: 'R. Bann Coleraine' SU4 written on blade			
674 9	949			UM 275:1964				pcs Hilt & upper blade	504	38	42	2:4 2R Dk brown 03:02:00	Hilt repair. Pieces fit together well Well cast hilt. Bl corroded to khaki				
	951			UM 91:1954A			Ballintober	Shs & upper blade	198		41	Khaki	Corroded				
677 (952			UM A124:1974			Ballintoper	Hilt & upper	200			Dk brown 02:04:00					
678	953 *			UM 471:1937B	Anderson			Complete Bl. shs & lower	510	37	46	5 498 Dk brown 02:02:00	V worn bl. Reshaped into dagger Pitted & corroded bl. Roughly cast hilt				
679 9 680 9	954			UM 1911:40 UM A126:1974	BNHPS/Lindsav			hilt Blade fot	460 406	32 43	42	Dk brown 02:02:00	Edge damage both edges. Worn blade				Slightly dished hilt flanges
681 9	956			UM VM125:174 UM A127:1974	Robinson			Bl fat Complete 2 pcs	216	32		Dk brown Dk green 3(+1):5(+1bl)	Good bevel detail Modern plunged cut Good casting	Painted on blade: Robinson Colln Irish'			May be Central Eron? Or an HaC blade? Minor edge damage both sides
	958			UM A44:1986	Salison			Bl & lower hilt. 2 pcs	493	34	48	Dk green 3:4 2R	Bad modern join. Bl corroded. Hilt repair				Bl looks OK but joined the wrong way around. Old hilt repair.
	959			UM A9:1988				Complete (no tip)	605	28	52	528 Black 02:04:00	Damage on 1 sh. Hilt & sh accretion				Beading detail only at top of bl nr shoulders.
		Clontarf*	Dublin	UM A201:1965				Complete	587	41	53	700 Dk brown 03:06:00	Bl cleaned. Minor edge dam 1 side.				Hilt outline visible both sides but incomplete
		Tamlaght*	Armagh	UM				Complete. 5 pcs	605	44	53	5 528 Dk green 03:06:00	Twisted corroded bl. Damaged shs	By a metal detectorist in 2004 in a dried out marsh	Bz bowl; bz cup in fgts; small bz ring	Warner (2006)	Hilt in pieces. Ricasso rounded & undamaged
		Toome*	Antrim	UM				Complete (no tang)	672	34	60		Superbly cast with fine ridging				Rivet holes 3.2 mm diam. Beautiful Gundlingen weapon.
	963 L	Unp*		UM A12558			1	BI & shs Complete (no	440	36	56	Dk brown ?:2	Modern wood arip hides hilt. Wom bl.	Label: From Knock Abbey. Given by O'Reilly family,			Raise hilt outline, central rib & thin shoulder
		Knock Abbey*	Louth	Dundalk 1995:15	O'Reilly		1	tang)	545	34	61	Dk brown, cleaned SI:4	Light casting, Raised hilt outline.	Knock Abbey B:From investigation of spoil dredged from Ulster			section suggest FAKE.
		Knocknacloy	Tyrone				1	Lower hit, shs &	\vdash			 		Blackwater & dumped at Knocknactoy			
692	967 I	Ireland* Ireland*		Leeds D1964.0278 Leeds D1992.0102				up bl Shs & upper bl	192 280		39 62	Dk brown 3(+1bl):2 Dk khaki 7:2(+2sl)	Good hilt casting Twisted blade. BzD 'flecking' on bl	Old label on bl reads'54"			
		Unp*		NMI W92			1	BI & shs Upper bl &hilt	454			Dk brown	Very rough. Modern join. Loz section				
694 9		D	T	NRU 4005 CT :				fat	132 256	32	50	Dk khaki ?:2	Rough hilt surface Delib bent & edge damage. HaC point	From turf cutting machine. Depth unknown From turf cutting machine. Depth unknown			
695	9/1 [Tipperary Tipperary	NMI 1965:67:1 NMI 1965:67:2				BI fat	-		1	1 1	1				1
695	9/1 [Derrynogan:	Tipperary Meath	NMI 1965:67:2 NMI 1967:217				Bl fot Blade & lower hilt	523	42	51	Dk khaki ?:2	Heaw hilt. Extensive damage both edges.	Acquired from National Library 22/9/67 where it was rediscovered			
696 9 697 9	971 L 972 / 973 L	Allenstown Desmesne* Lough Gill*	Tipperary Meath Sligo	NMI 1965:67:2 NMI 1967:217 NMI 1967:116				Bl fot Blade & lower hilt Complete	523 625	42 27	51 53	Dk brown 2:6 3R 3 diam	Clean blade, worn edges. Dished hilt edges	rediscovered NMI index has 'found in lake' Label reads:Found at Doon, Gort, Galway. Presented by			
696 9 697 9	972 / 973 L	Allenstown Desmesne* Lough Gill* Gort*	Tipperary Meath Sligo Galway Monaghan	NMI 1965:67:2 NMI 1967:217 NMI 1967:116 NMI 1965:81 NMI 1965.166				Bl fot Blade & lower hilt Complete Blade FAKE	523 625 401	27 27	51 53	Dk brown 2:6 3R 3 diam	Clean blade, worn edges. Dished hilt edges Corroded blade and edges	rediscovered NMI index has 'found in lake' Label reads:Found at Doon, Gort, Galway. Presented by Mr Matthew Wallace			
696 9 697 9 698 9 700 9	972 / 973 L 974 (975 F 976 E	Allenstown Desmesne* Lough Gill* Gort* Famley* Ballyanaghelint*	Tipperary Meath Sligo Galway Monaghan Monaghan	NMI 1965:67:2 NMI 1967:217 NMI 1967:116 NMI 1965:81 NMI 1965:166 NMI 1965:165				Bl fot Blade & lower hilt Comolete Blade FAKE Blade fgt Complete. 2	523	27 27 32	51 53	Dk brown 2:6 3R 3 diam Dk areen Khaki	Ciean blade, worn edoes. Dished hilt edoes Corroded blade and edoes Surface partly cleaned	rediscovered MMI index has 'found in lake' Label reads-Found at Doon, Gort, Galway. Presented by Mr Matthew Wallace Acq from Major Stanley @ Carrickmacross			Note tab on terminal
696 9 697 9 698 9 700 9	971 L 973 L 974 C 975 E 976 E	Dernynogan Allenstown Desmesne* Lough Gill* Gort* Famley* Ballyanaghelint*	Tipperary Meath Sligo Galway Monaghan	NMI 1965:67:2 NMI 1967:217 NMI 1967:116 NMI 1965:81 NMI 1965:166 NMI 1965:165 NMI 1968:437				Bl fot Blade & lower hilt Complete Blade FAKE Blade fgt Complete. 2 pieces Complete. 2	523 625 401	42 27 27 32 32	51 53 42	Dk brown 2.6 3R 3 diam	Ciean blade, worn edoes. Dished hilt edoes Corroded blade and edoes Surface partly cleaned Edges and surface corroded	nediscovered NMI index has 'found in lake' Label reads: Found at Door, Gort, Gallway, Presented by MM Matthew Wallace Acq from Major Stanley @ Carrickmacross NMI index from the Kiltoon shore of Lough Dernyaragh.			Note tab on terminal Accretion to be removed by NMI Accretion to De removed by NMI Accretion to De removed by NMI Accretion to De removed by NMI Accretion to De removed by NMI Accretion to De removed by NMI Accretion to De removed by NMI Accretion to De removed by NMI Accretion to De
696 9 697 9 698 9 700 9	971 L 973 L 974 C 975 E 976 E	Allenstown Desmesne* Lough Gill* Gort* Famley* Ballyanaghelint*	Tipperary Meath Sligo Galway Monaghan Monaghan	NMI 1965:67:2 NMI 1967:217 NMI 1967:116 NMI 1965:81 NMI 1965:166 NMI 1965:165				Bl fot Blade & lower hilt Complete Blade FAKE Blade fgt Complete. 2 pieces	523 625 401	27 27 32 32 46	51 53 42 58	Dk brown 2:6 3R 3 diam Dk areen Khaki	Ciean blade, worn edoes. Dished hilt edoes Corroded blade and edoes Surface partly cleaned	rediscovered MMI index has 'found in lake' Label reads-Found at Doon, Gort, Galway. Presented by Mr Matthew Wallace Acq from Major Stanley @ Carrickmacross			Accretion to be removed by NMI Conservation, Collins Barracks
696 6 697 9 698 9 699 9 700 9	971 1 972 1 973 1 974 0 976 1 977 1 978 0	Denmogan Allenstown Desmesne* Lough Gil* Familey Bankanaghelint* Kiltoon* Castlepollard*	Tipperary Meath Silipo Silipo Galway Monaghan Monaghan Monaghan Westmeath Westmeath	NMI 1965-67-2 NMI 1967-217 NMI 1967-217 NMI 1967-116 NMI 1965-81 NMI 1965-18 NMI 1965-165 NMI 1965-165 NMI 1968-437 NMI 2010-286 NMI L1936-1				Bi fot Blade & lower hilt Complete Blade FAKE Blade fgt Complete . 2 pieces Complete . 2 pieces Complete . 2 pieces Complete . 2 pieces Complete . 2 pieces Complete . 2 pieces Complete . 2 pieces Complete . 2 pieces	523 625 401 235 486 549	27 27 32 32 46	51 53 42 58	Dic brown 26.38,3 dam Dic brown 26.38,3 dam Dic brown 26.48,3 dam Dic brown 32.4 (+28) Dic brown 32.4 (+28) Dic brown 27.4 (50.62 (+48)) Dic brown 27.4 (+48) (+48) (+48) (+48) (+48) (+48) (+48) (+48) (+4	Clean Lade worn edons. Chiehel hit edoes Cornoded blade and edoes Surface parthy cleaned Edoes and suface cornoded Widespread accretion; good beneath Shiry surface. Sh hotes inconsistent	endiscovered Sund in Island			Accretion to be removed by NMI
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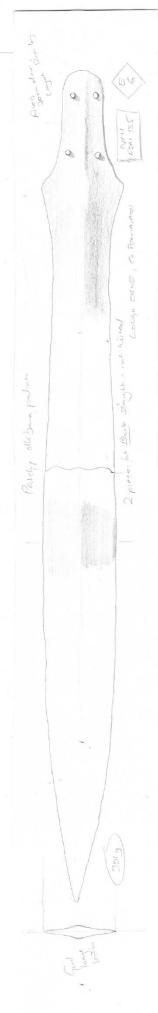
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		Killity*	Offaly	NMI E499:988H				fgt	174				Dk khaki/green mottle	d ? 2R	Shs damaged. Dished flanges				
		Killity*	Offaly	NMI E499:988Q				BI fgt	233	32			Khaki		BzD all pieces				
		Killity*	Offaly	NMI E499:988				9 x bl fgts											
719	995	Athlone and Big Meadow	Roscommon	NMI 1987:440					_	_									
720	996	Unp* Poss Erpn		Lm(Hunt) HCA376				Complete	737	34	60	764	Brown	1(+1):2 1R 4 diam	Green accretion	Circumstances of acquisition u/k			BI Shape, section (fine ridging) & hilt seem verv Eron
								Hilt, shs &											
721	997	Unp*		Lm(Hunt) HCA374				upper bl	170		41		Dk brown	2(+1):4 1R 2.8 d	Some surface accretion	Circumstances of acquisition u/k			
722	998	Unp*		Lm(Hunt) HCA377				BI fat	31	36			Brown			Circumstances of acquisition u/k			
723	999	Kilrush*	Limerick	Lm(City) 1986,175				Complete	482				Smooth dk green	2. poss 4	Edges badly corroded	Circumstances of acquisition u/k. Lim online cat has Kilrush-Clonmacken			Lacquered, Beautiful lozenge cross section.
																M:Found 1984 by Mr P Griffin, nr lake S of graveyard, N of		Rynne (1984), 5-26,	Nice HaC sword, good condition. Dished hilt
724	1000	Menio*	Galway	Galway E269.11				Complete	673	30	56		Khaki	2:5 1R 3.5 D	Modern solder on hilt. Poss old join on bl	castle		fig.11	edges
725	1001	Killaloe*	Clare	NMI 1974:30				Complete	600	37	52	552	Khaki	03:04:00	Pitted surface, green bzd. Worn blade				
726	1002	Kilkee*	Clare	NMI 1966:104				Complete	55	30	43	402	Khaki	1(+1 bl+1):2	Cleaned, pitted surface, cast on repair				
727	1003	Linn	Ireland	Burrell 4.2.73			c	complete apart from left shoulder	464	30	41	373			Complete except for left shoulder but very worn, brown patins with bronze surface showing through especially on lower blade. Broad flange on grip, 2 river-boles in grip with traces of a central unperforated hole, 2x2 rivet holes of unequal size in shoulders. Broad midrib tapering to point at lower grip river-hole. Cutting edges sharp with some notches.	Purchased from G F Williams, 22 Heath Gate, London NW11, 26 September 1950 for £25.			
				Glasgow 1902.73kh (Not available April			ы	eaf-shaped lade, rivets	600										
728	1004	Unp	Ireland	2014)	Anderson College		SL	urvivina.'	600	_									
729	1005	Unp	Ireland	Glasgow 1902.73kl	Anderson College		ex	Complete xcept for very tip of blade	518	33	44	465			surface worn; brown patina. Well-defined flange from but to shoulders, distinct ricasai. 3 rive tholes in grip, 2x3 in shoulders; lowest rivet in grip survives complete, lowest left shoulder hole open, other filled by remains of broken rivets. Broad midrib tapering to point immediately below lowest grip rivet. Cutting edges sharp but worn with distinct notches in one edge.				
731	_	Unn	?Ireland	GLAHM A.115			-	Complete	406	20	24	348	-	+	0				+
732		Unp	?ireland	Axel Guttman				Complete	406	28	34	348			Complete, verv worn, edges eroded: brown Born & Hansen Helme und Waffen Alteuropas, Mainz, 2001, AG 75 & 1021, pp 120-30 & 274-5, Abb. 99 & 156/3				
733		Unp	?ireland	Axel Guttman											Born & Hansen Helme und Waffen Alteuropas, Mainz, 2001, AG 75 & 1021, pp 120-30 & 274-5, Abb, 99 & 156/3				

Bronze Age Swords in Ireland Catalogue

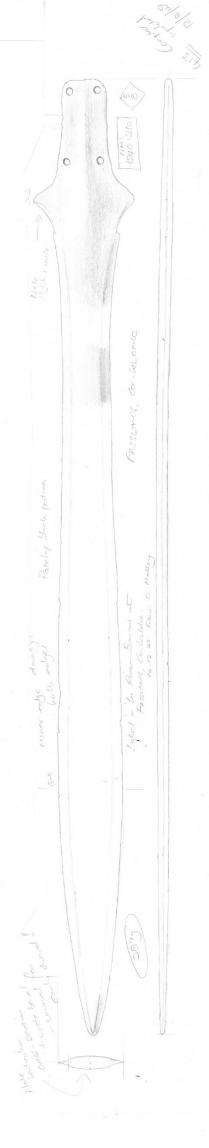


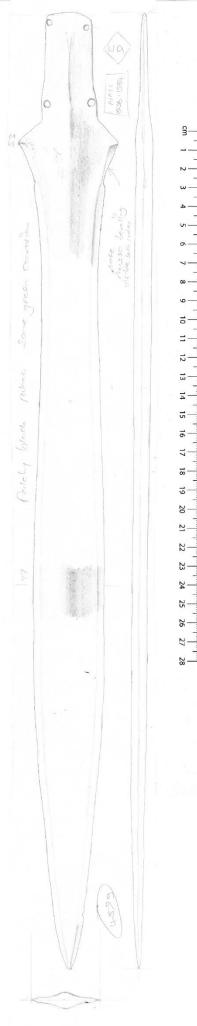


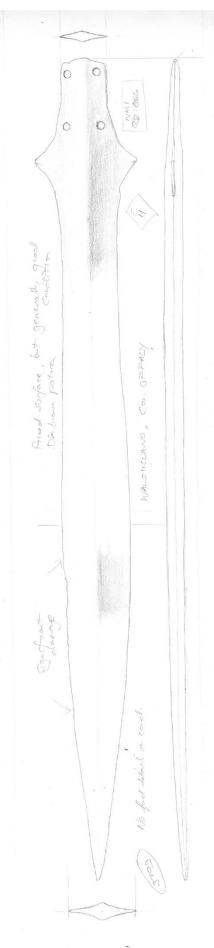


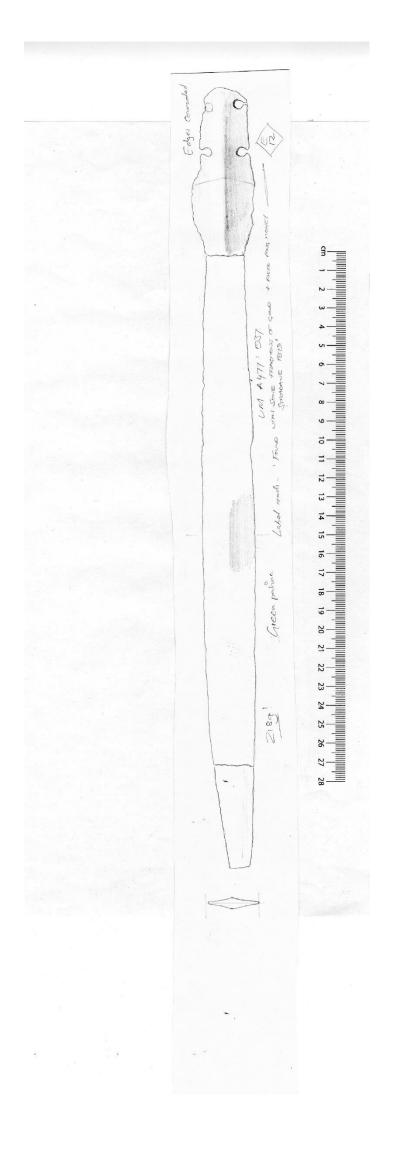


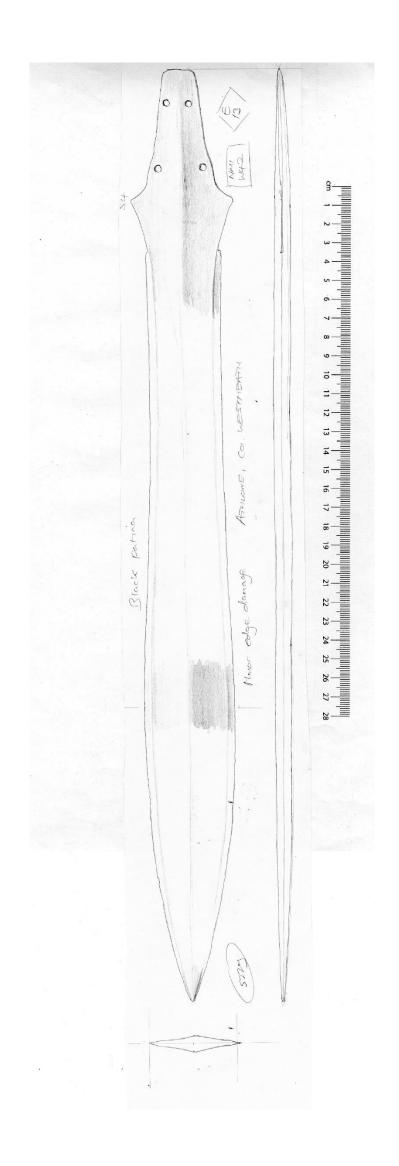
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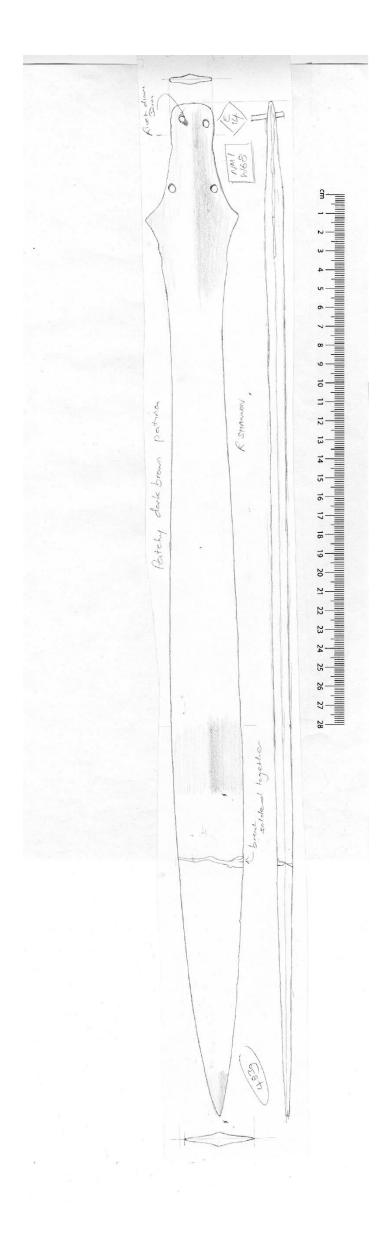


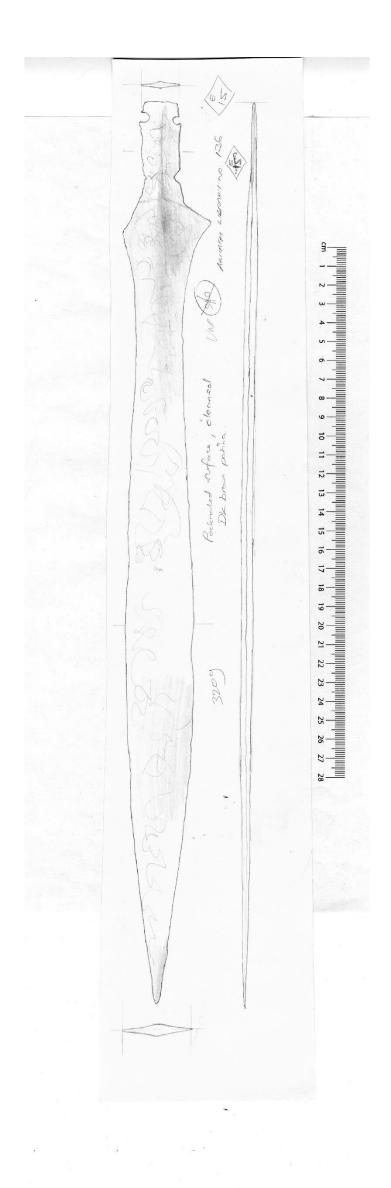


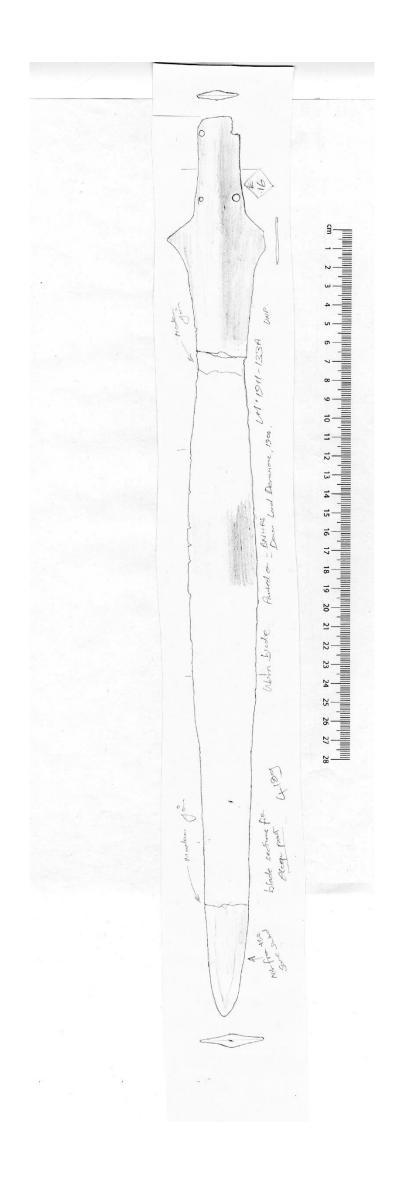


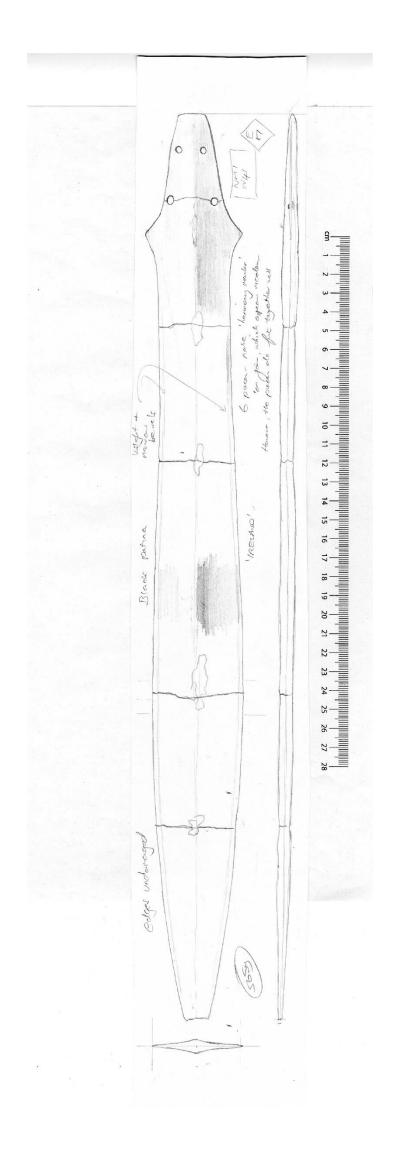


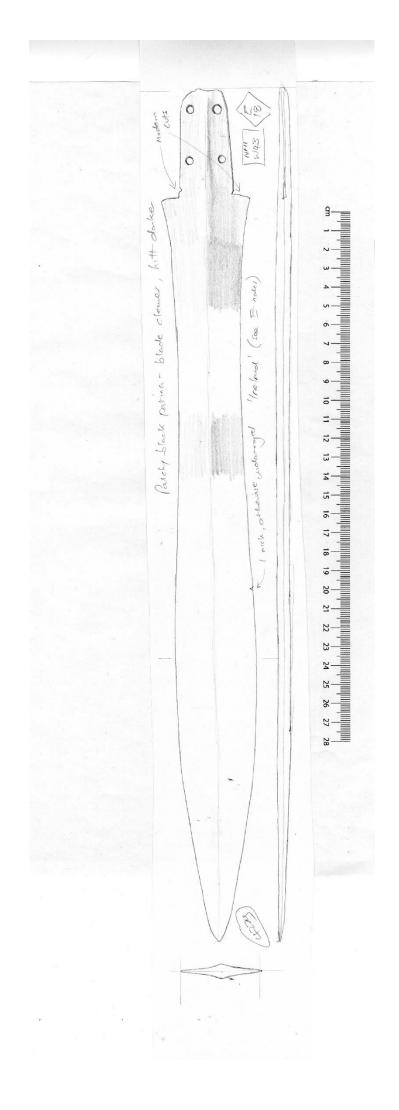


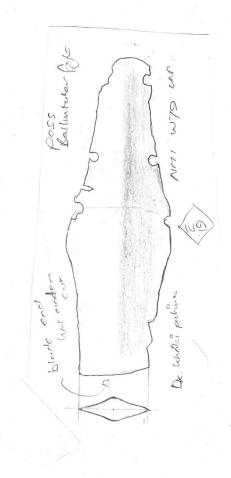


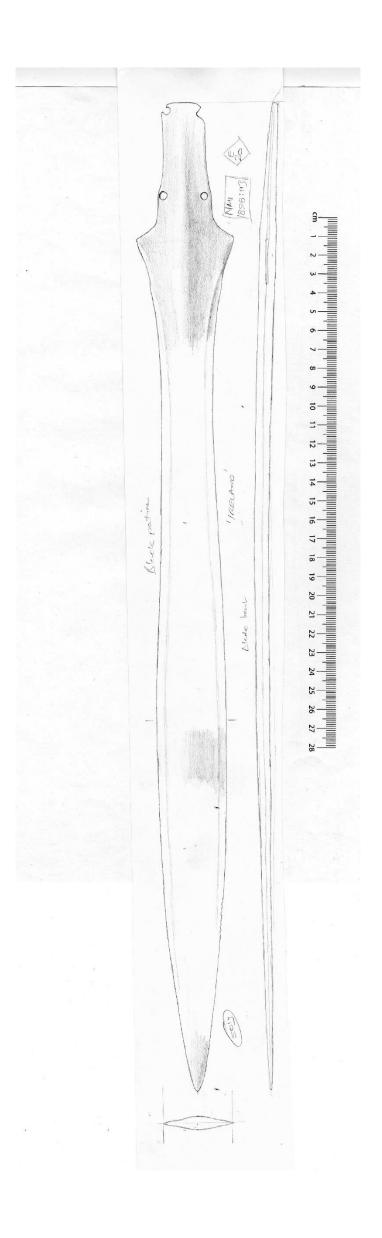


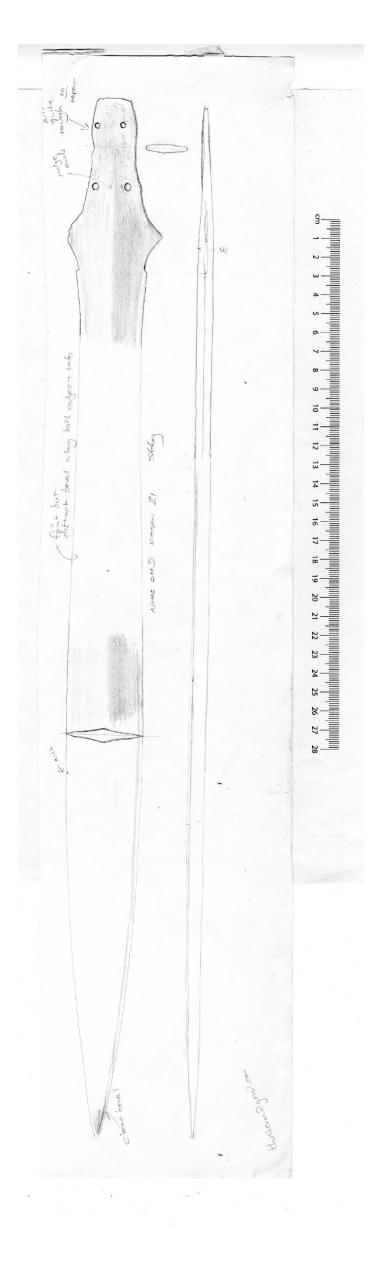


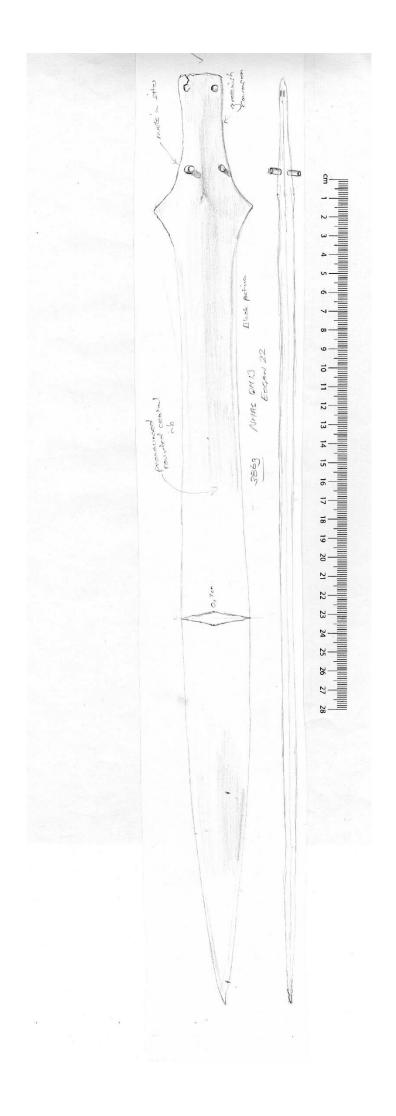


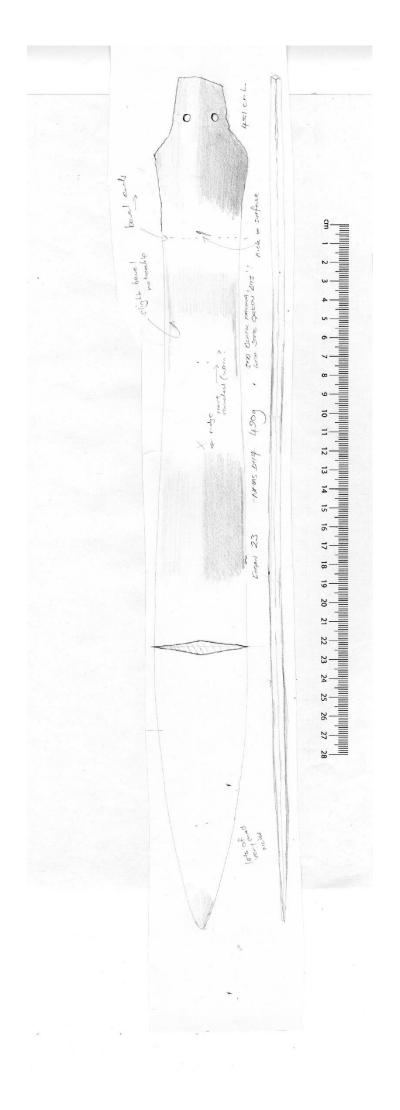


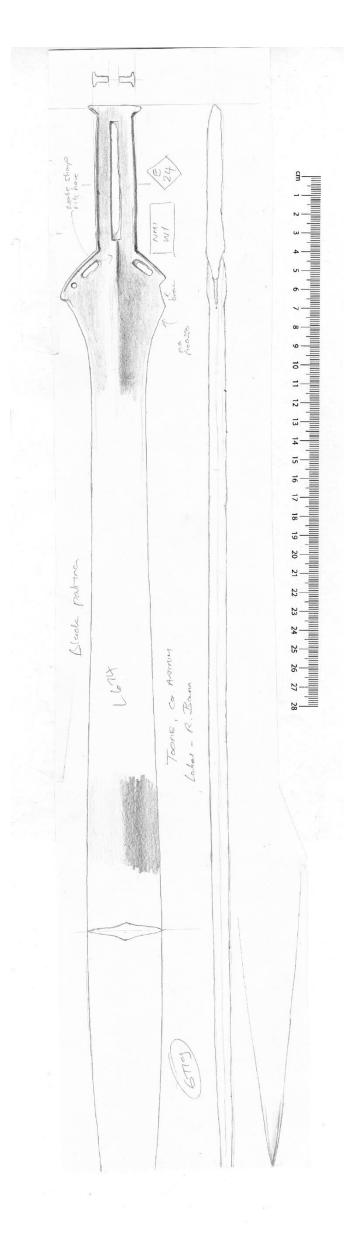


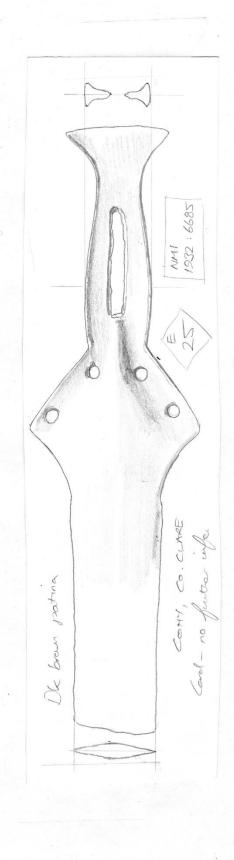




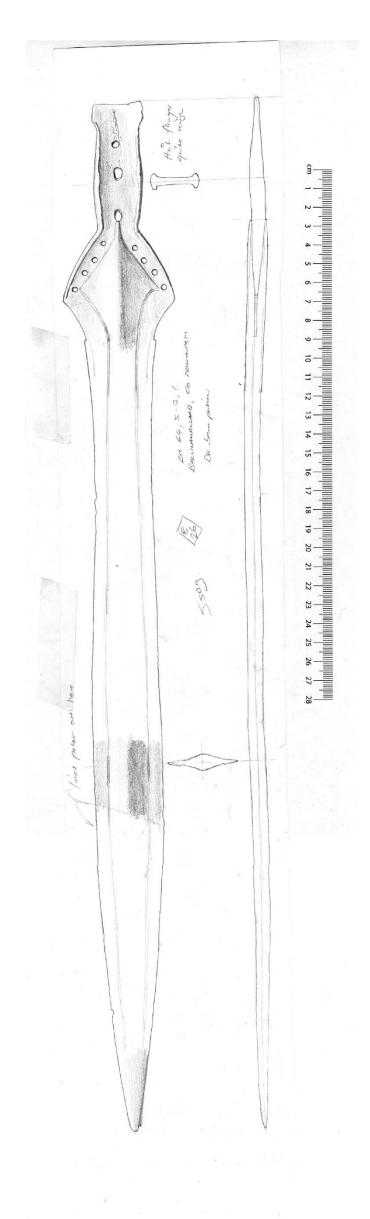


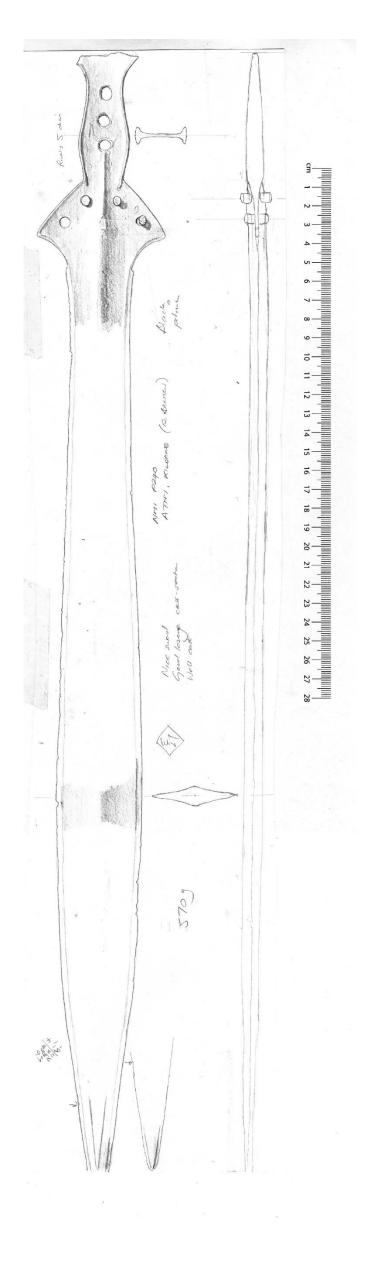


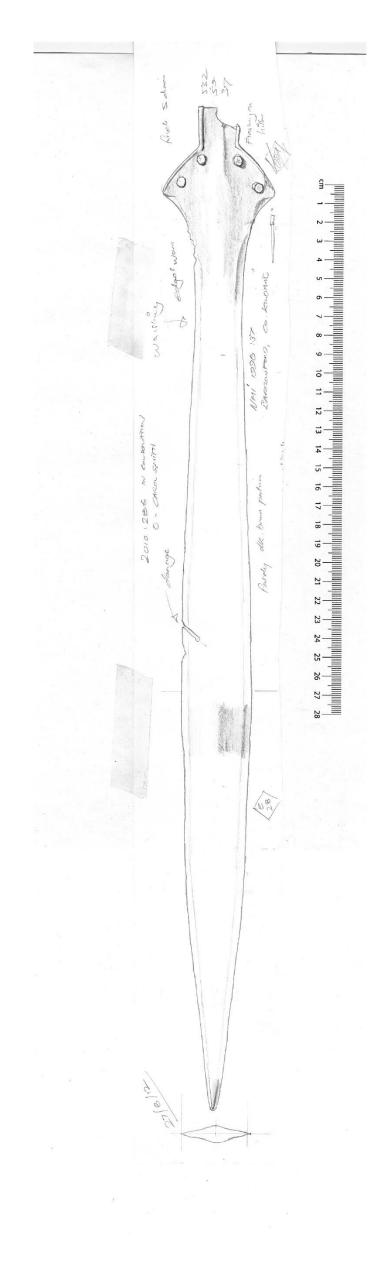


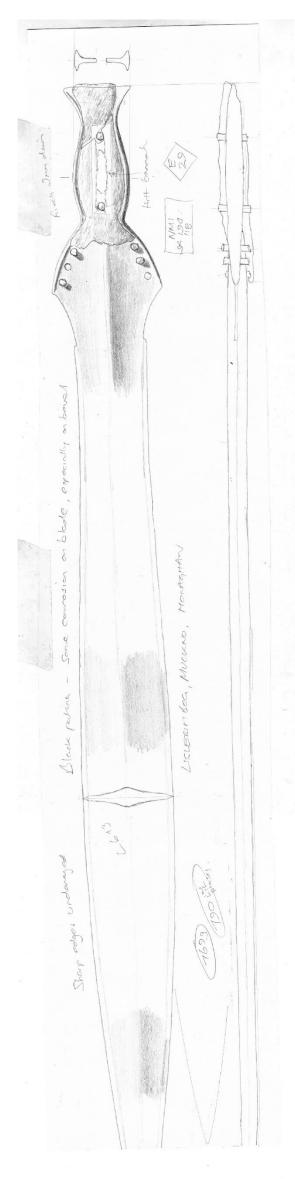


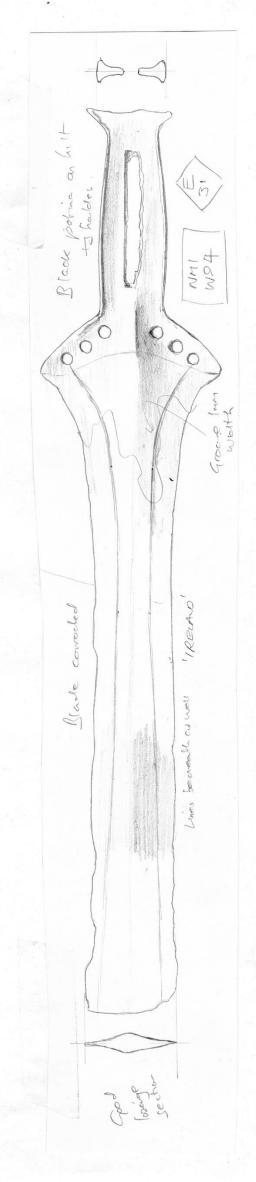
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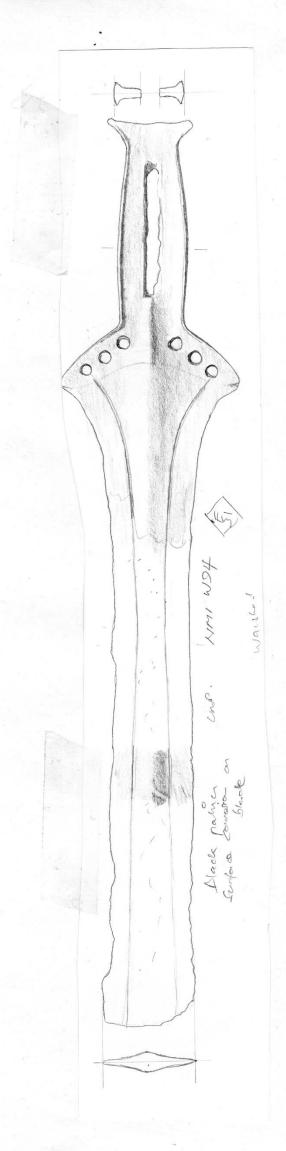






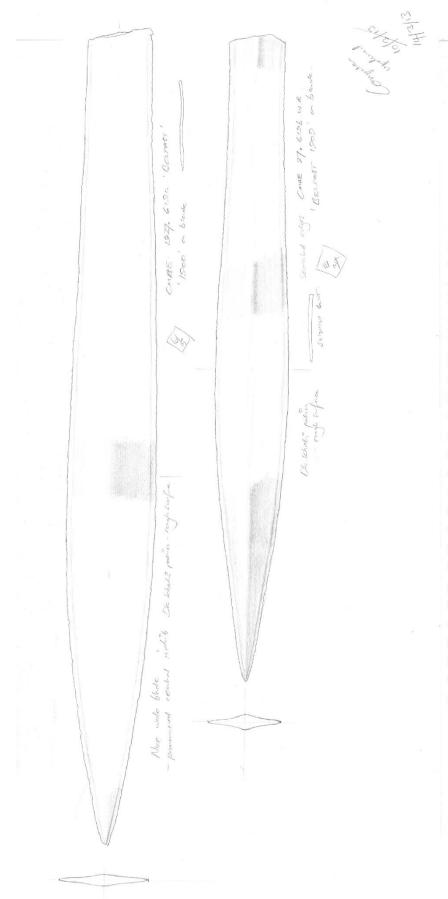
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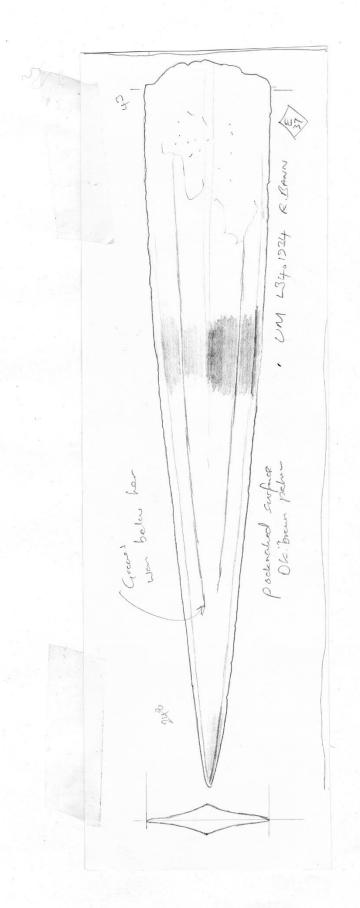
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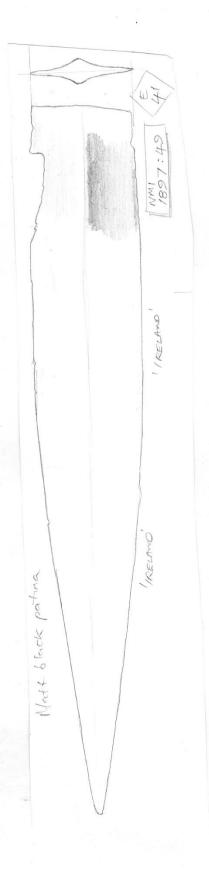


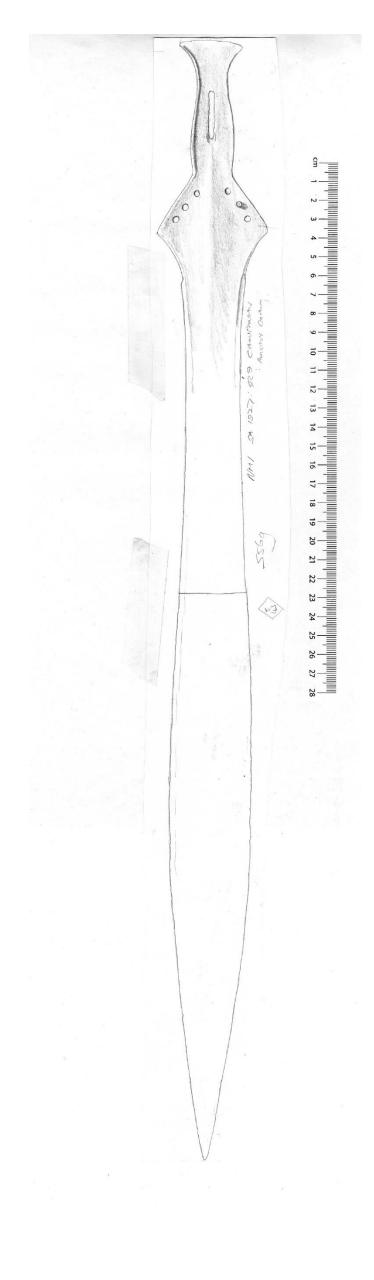


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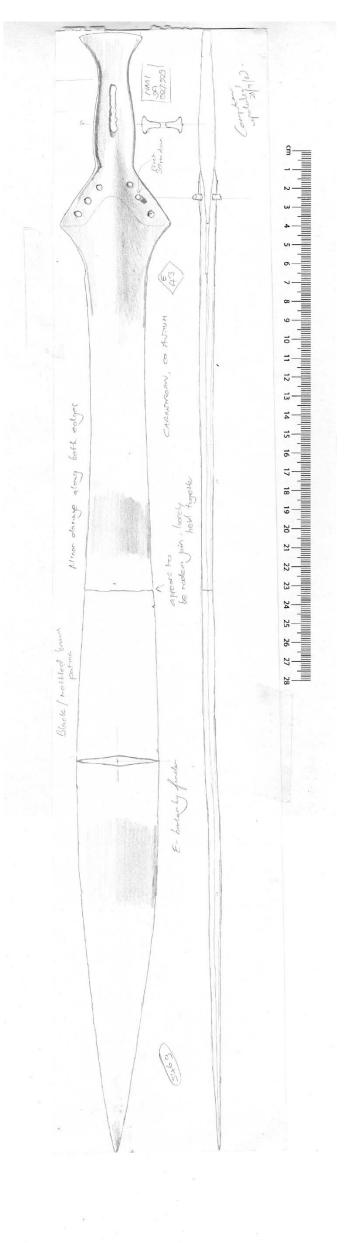


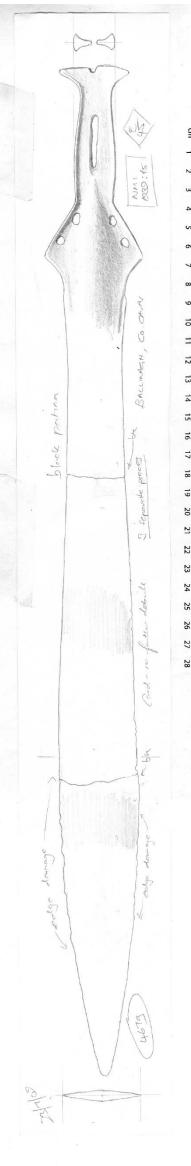


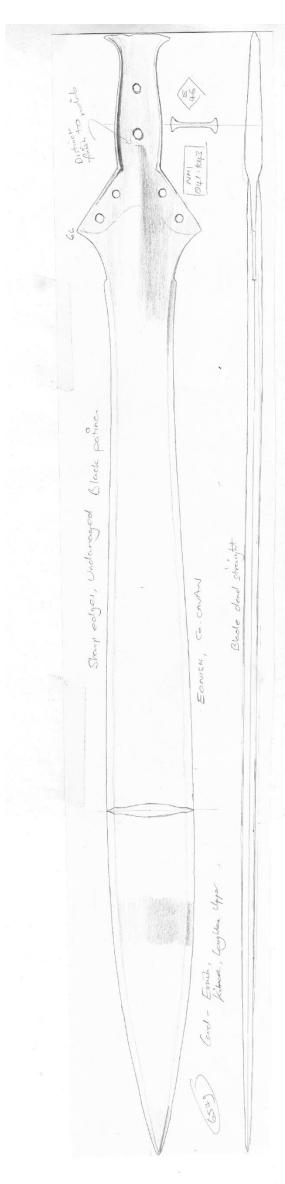


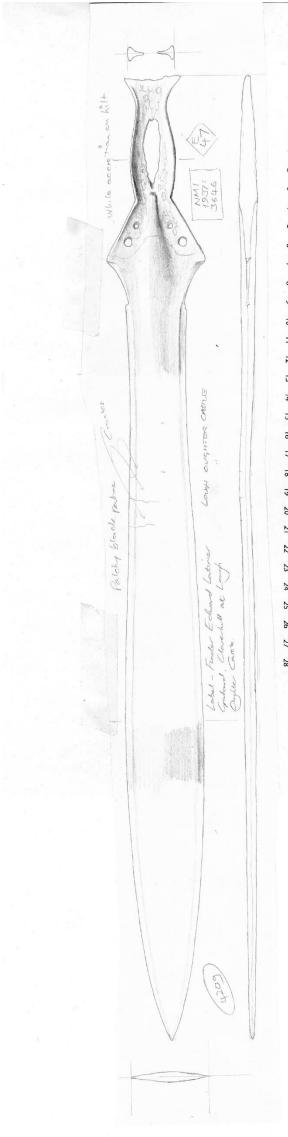


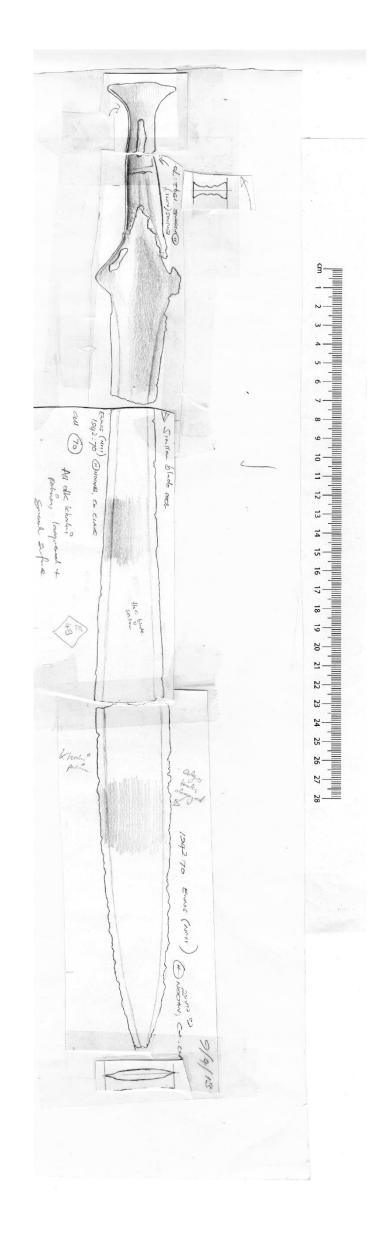
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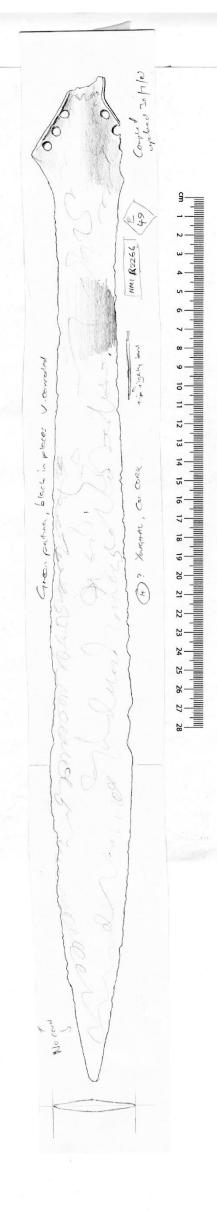


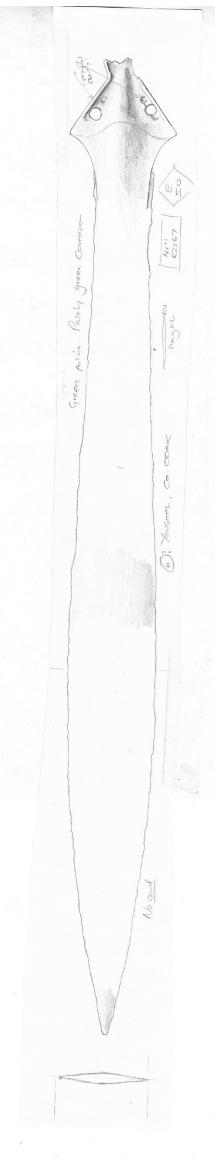




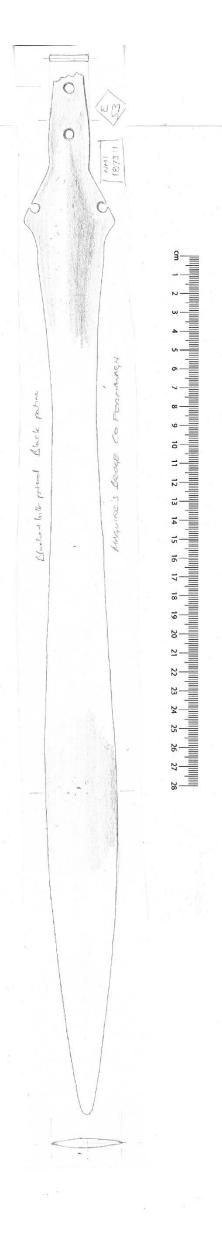


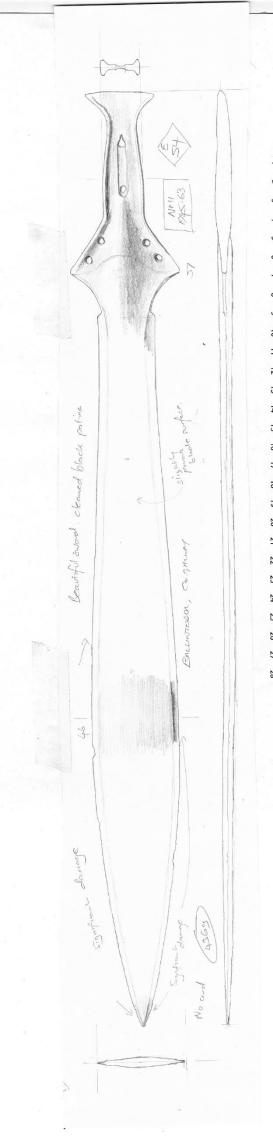


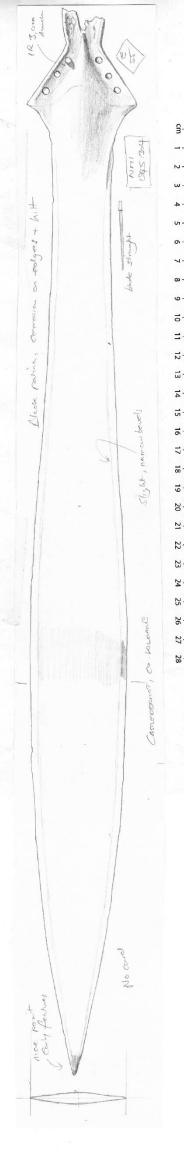




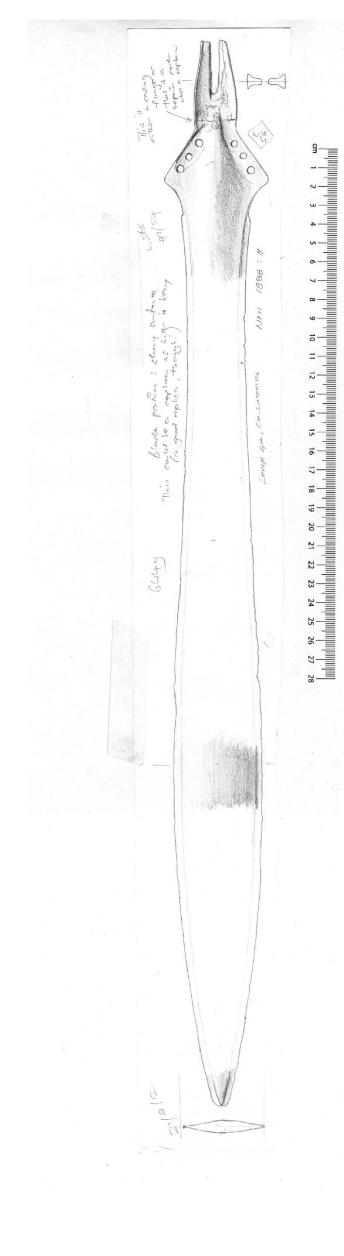
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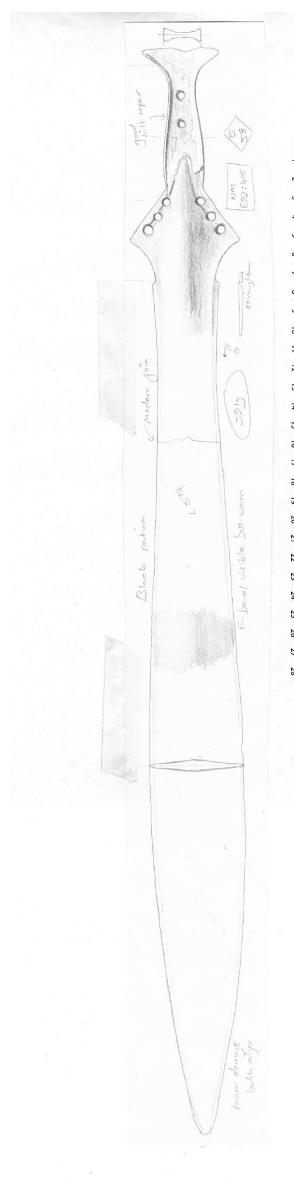


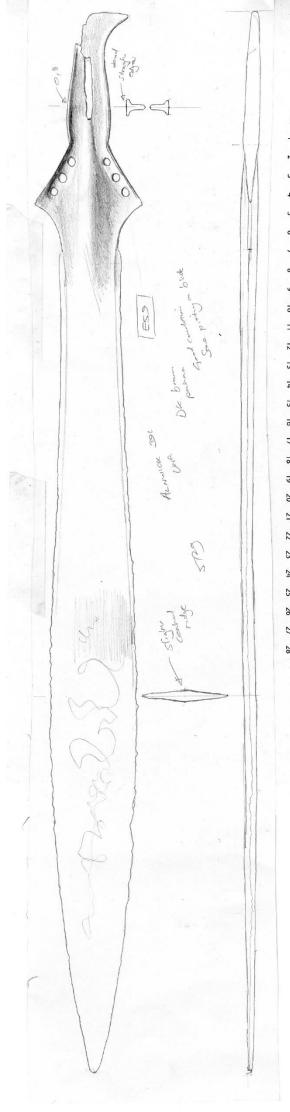




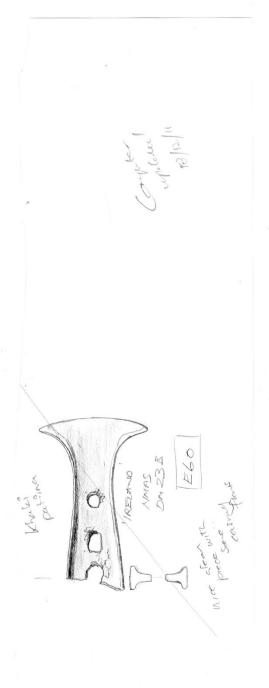
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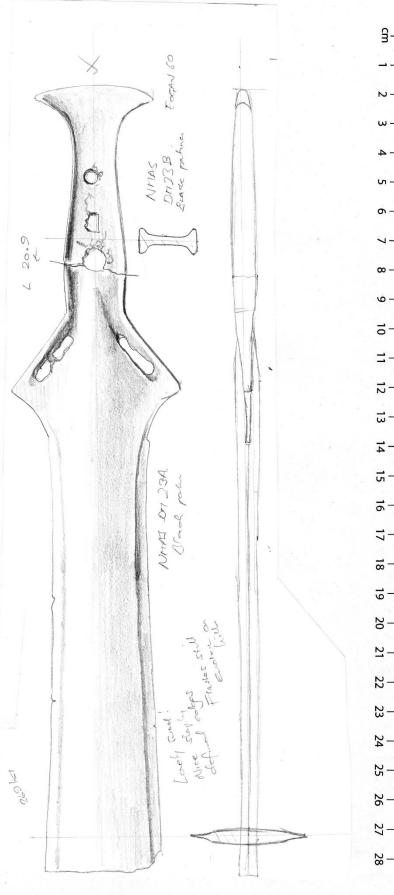


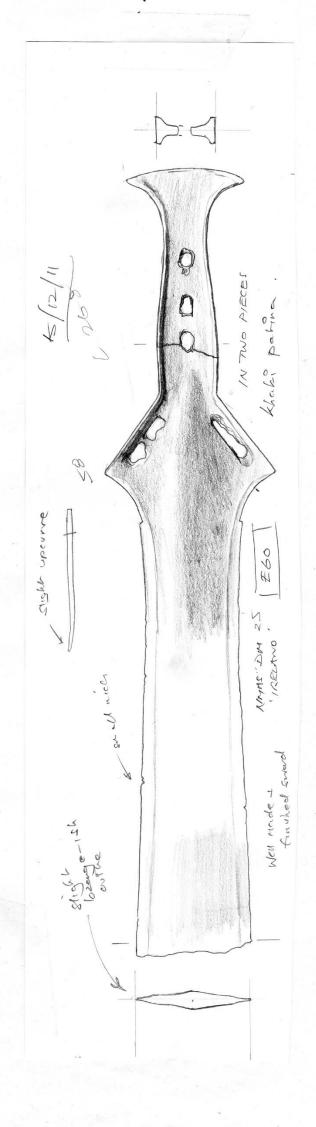


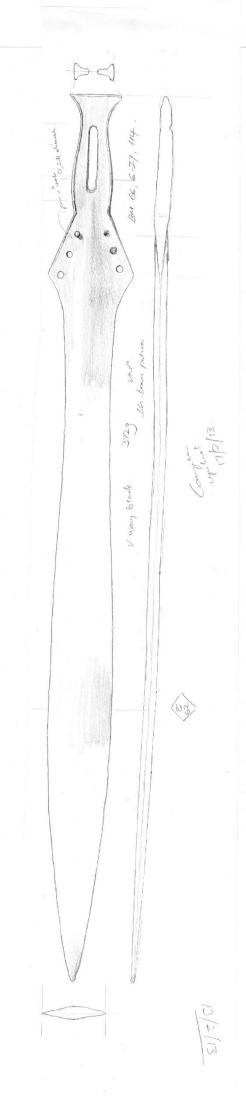
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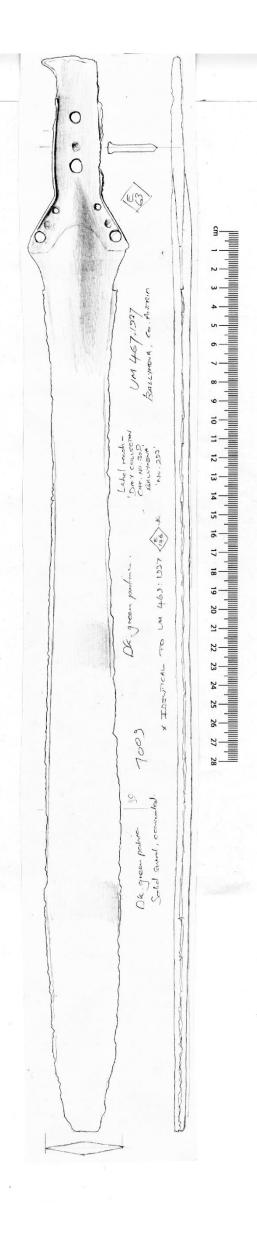
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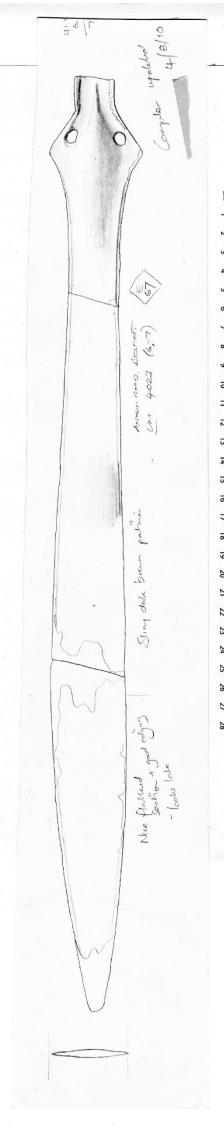


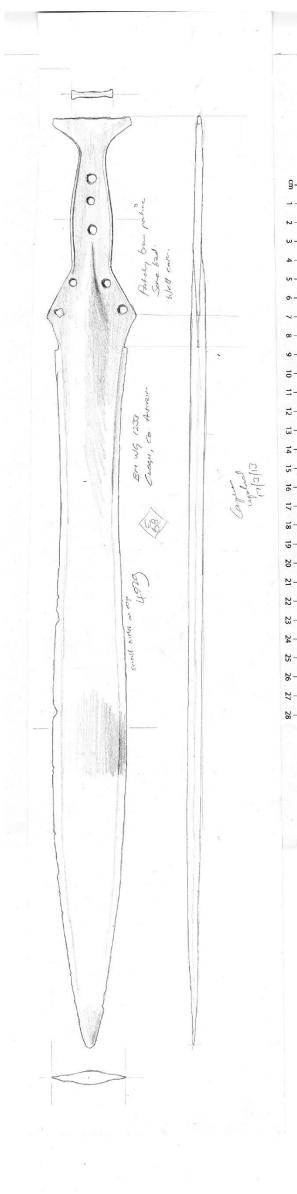


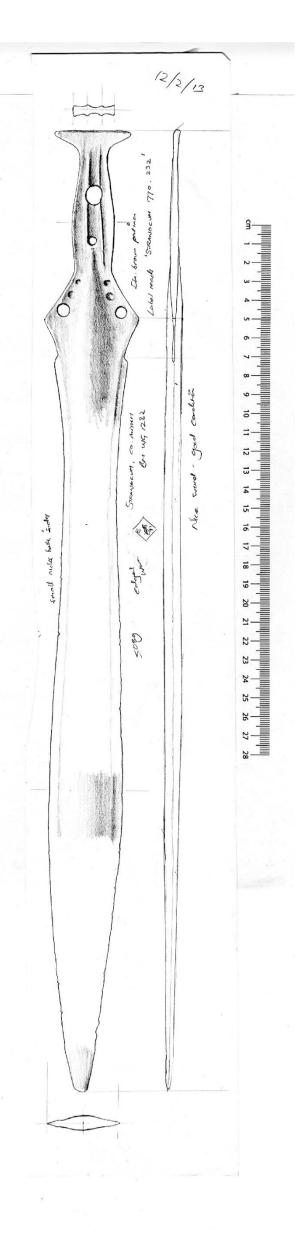


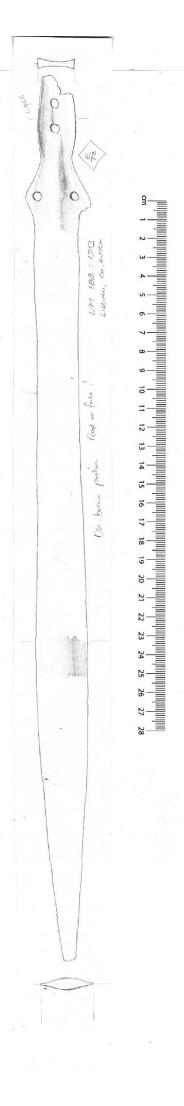
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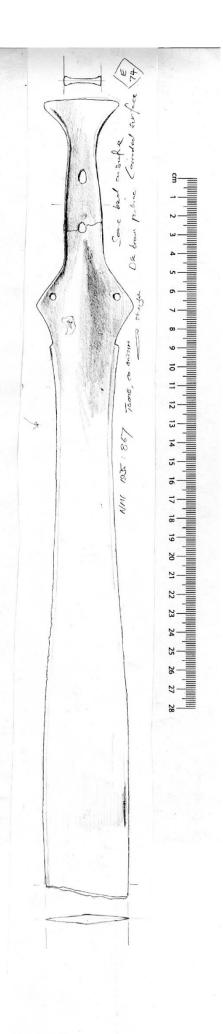


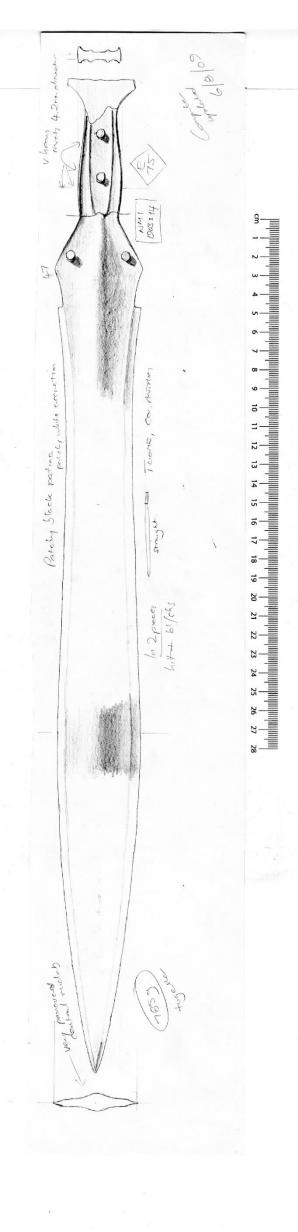


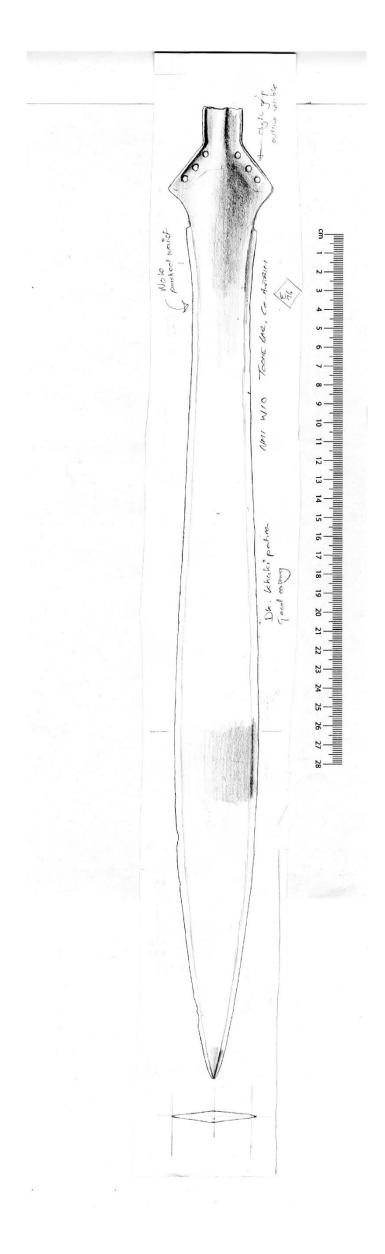


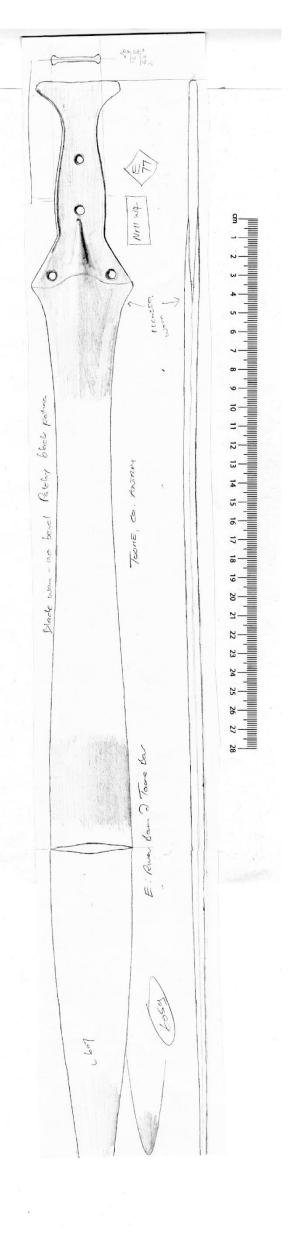


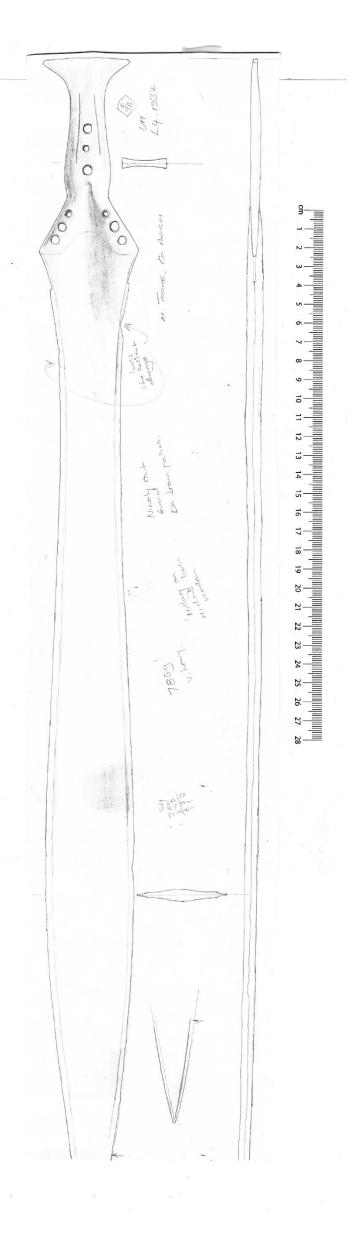
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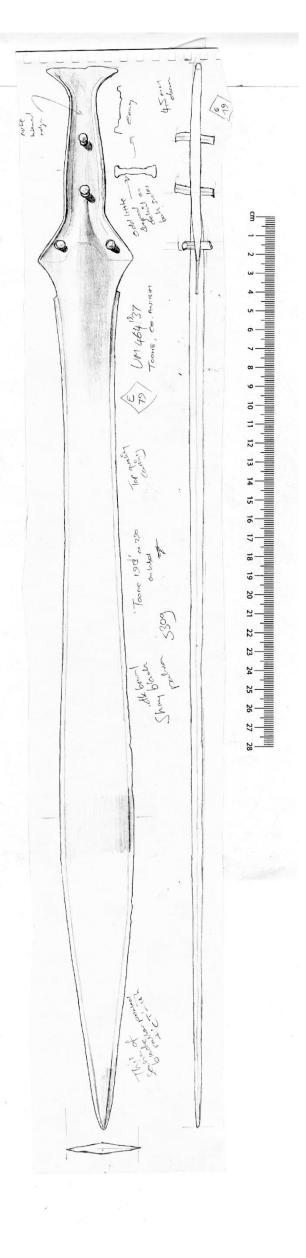


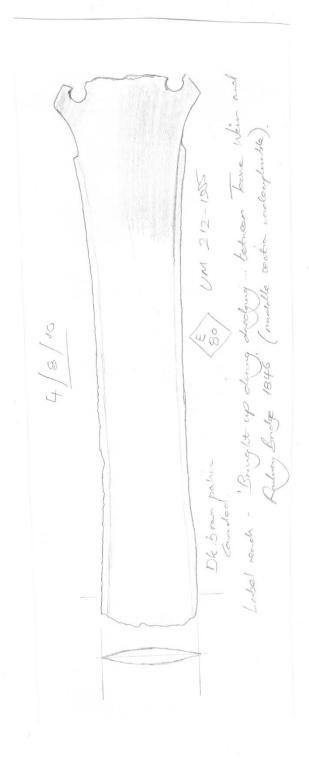


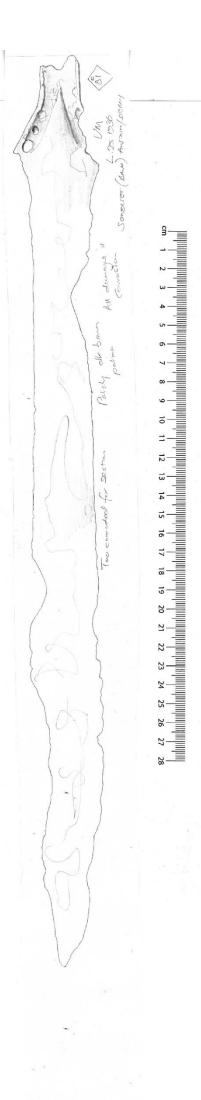


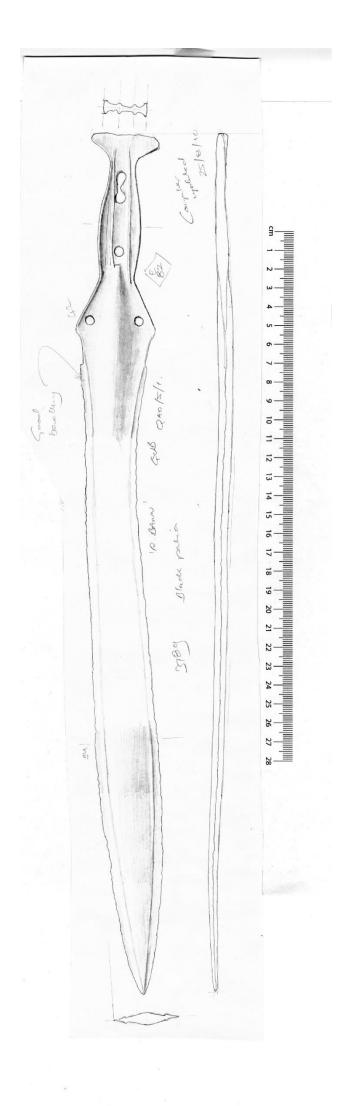


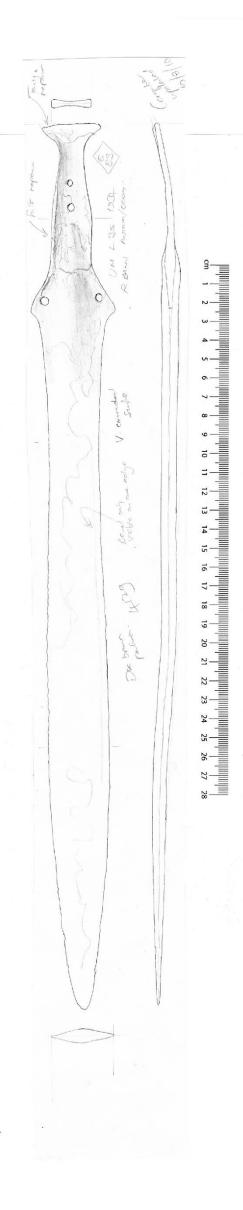


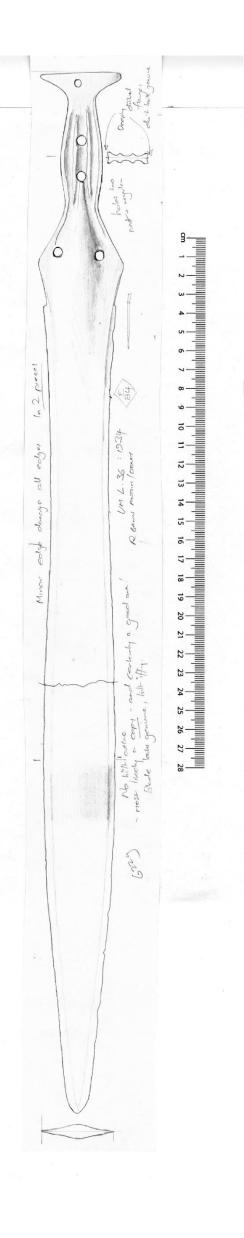


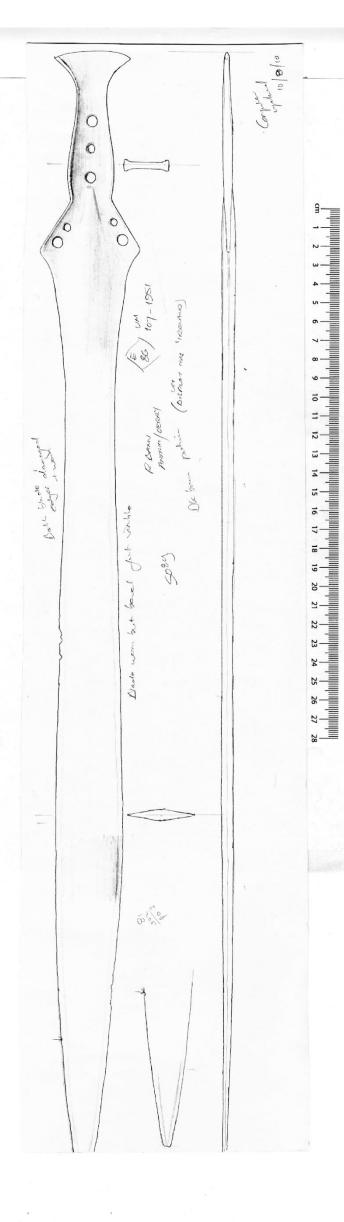




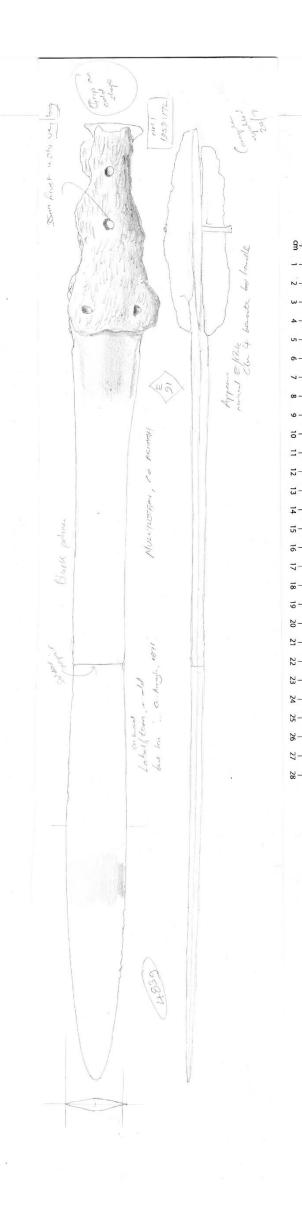




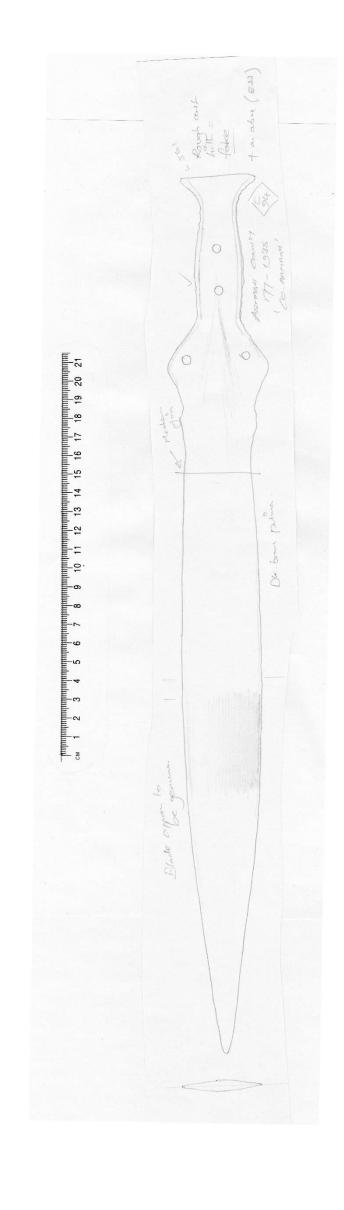




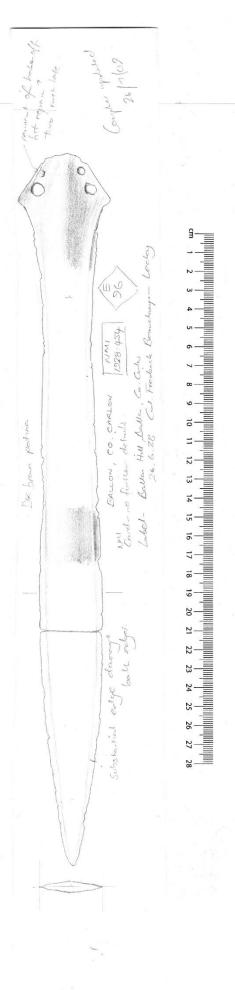


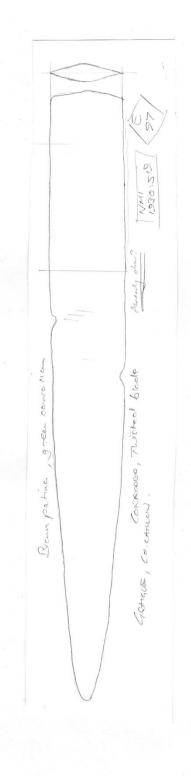


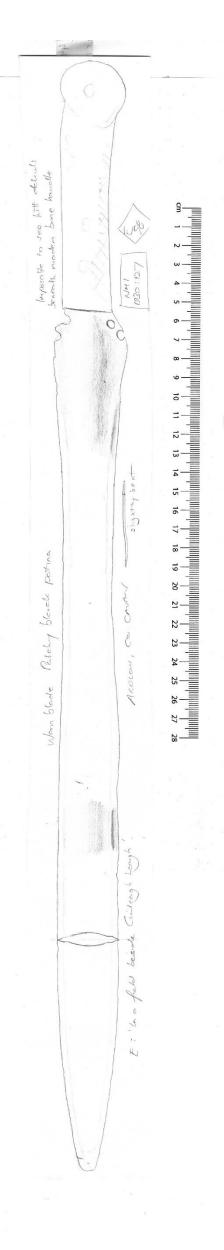


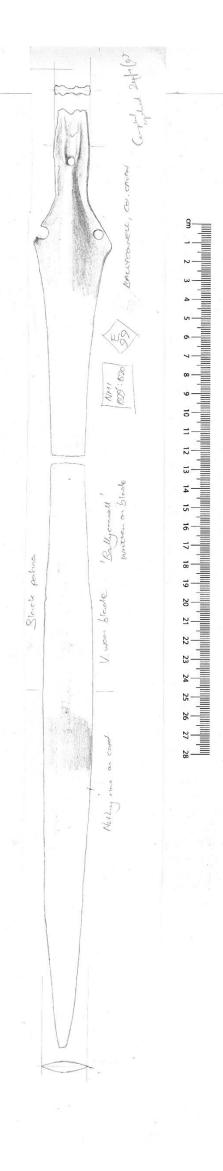


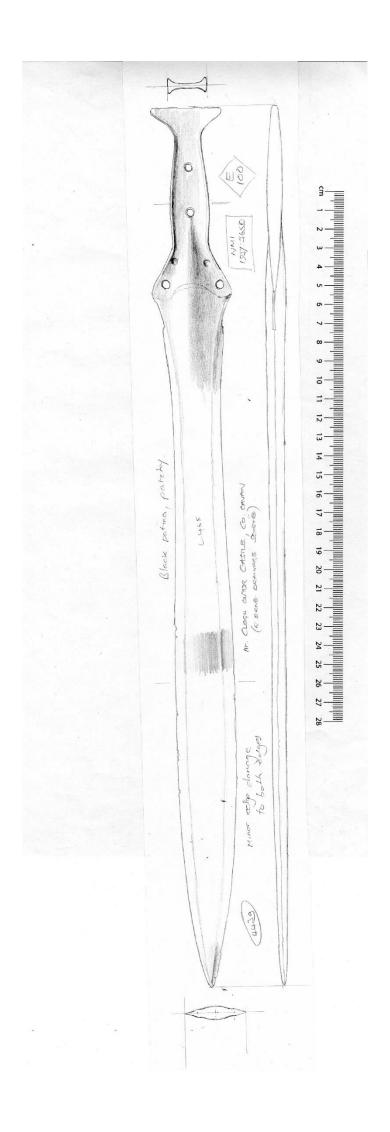




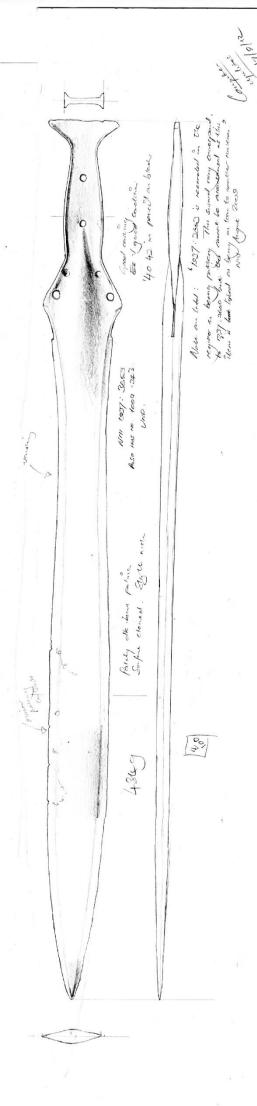


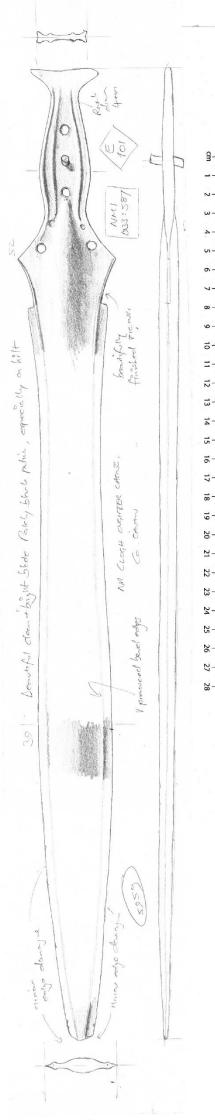


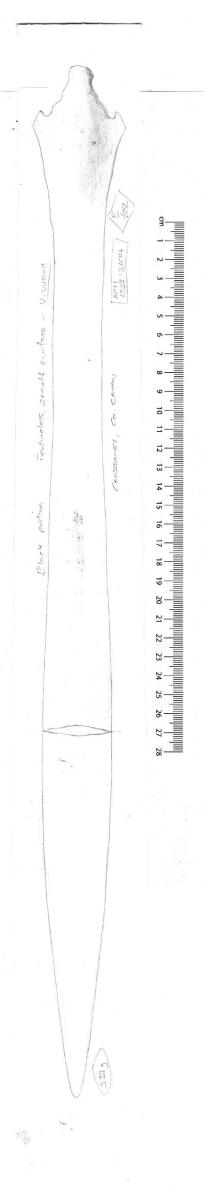


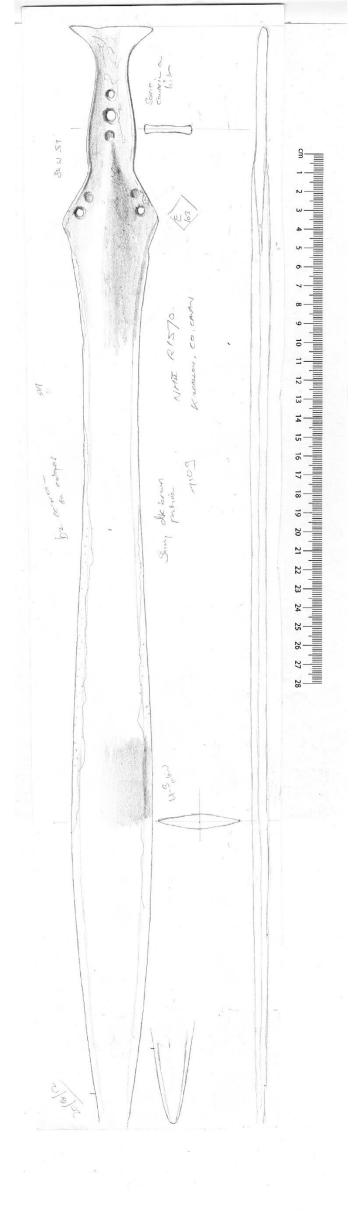


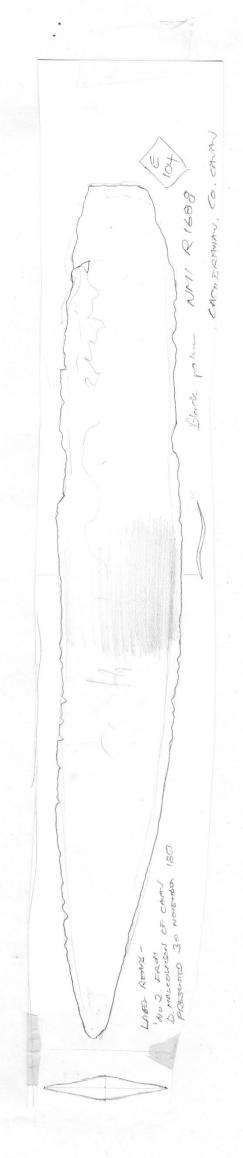
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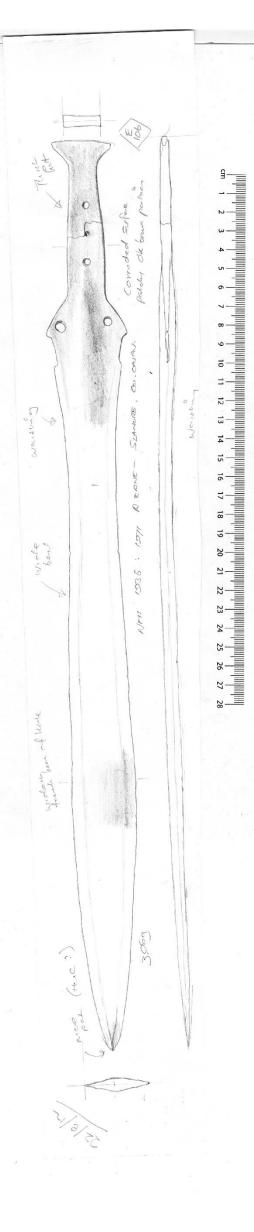


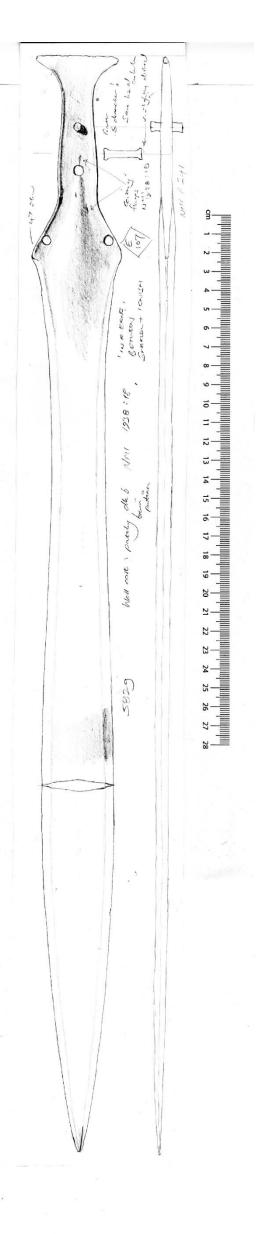


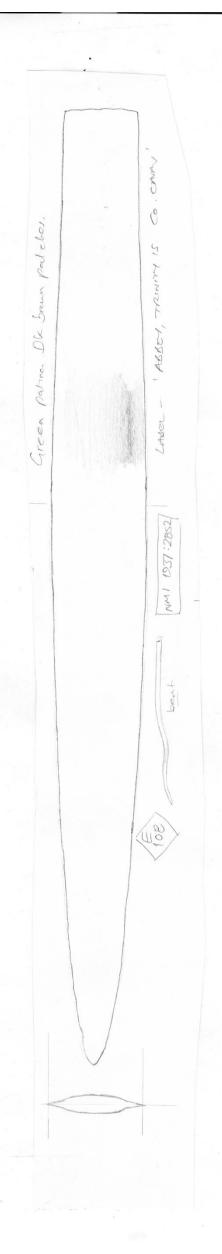


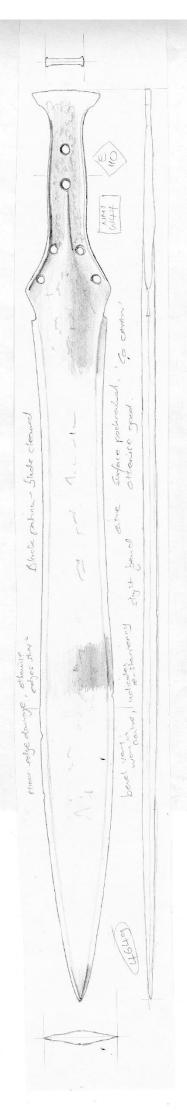


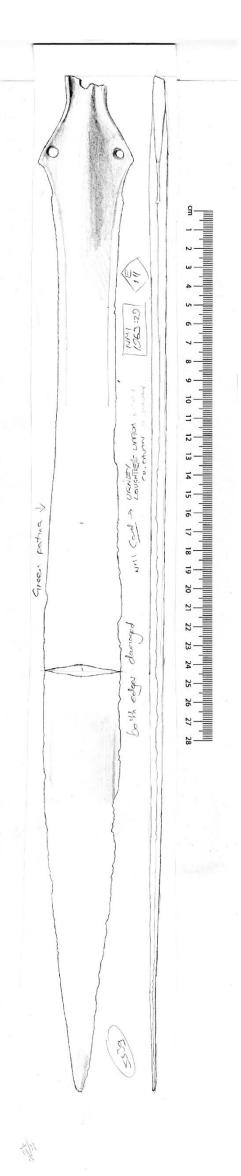


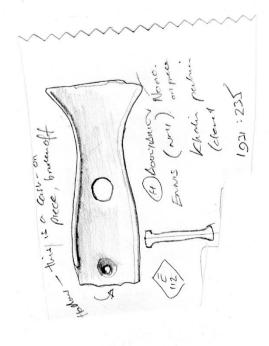


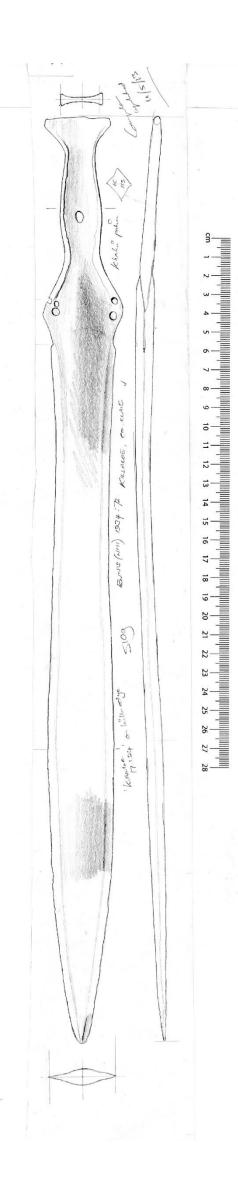


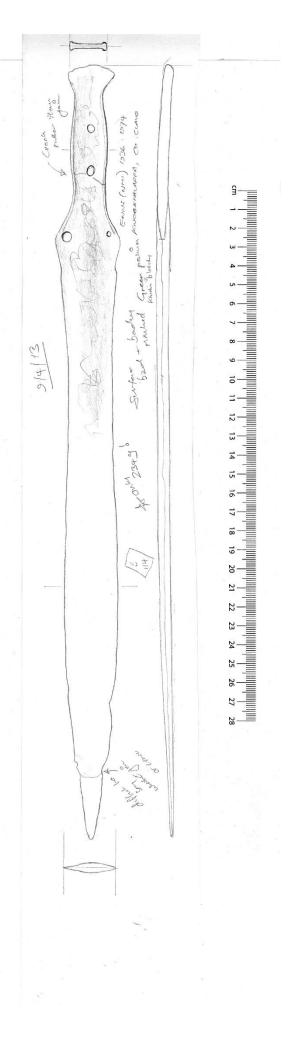


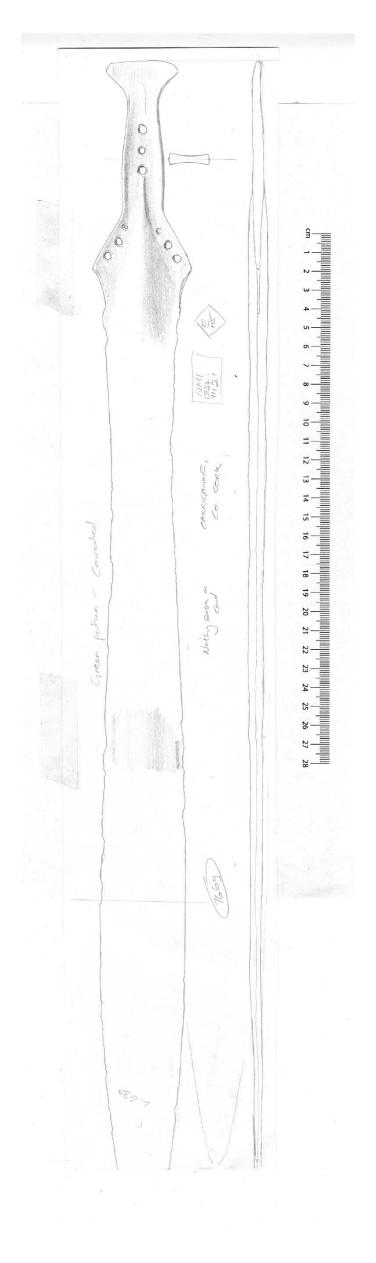


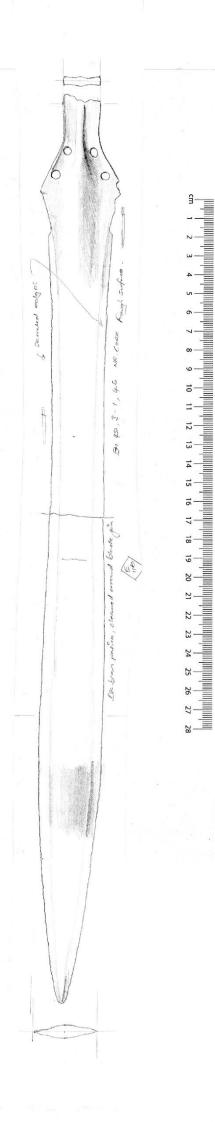


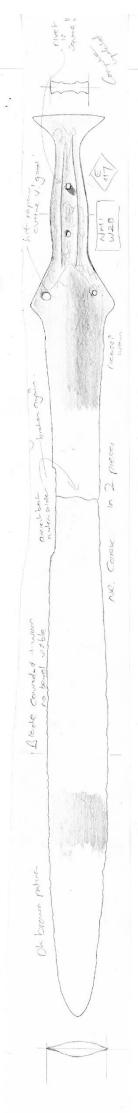










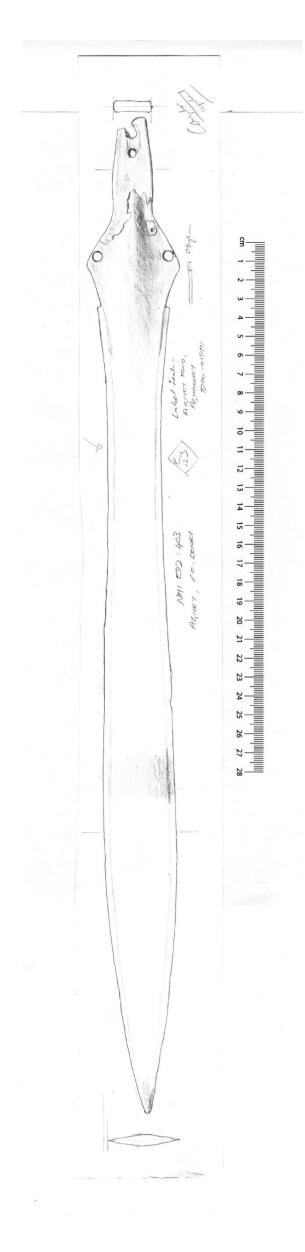






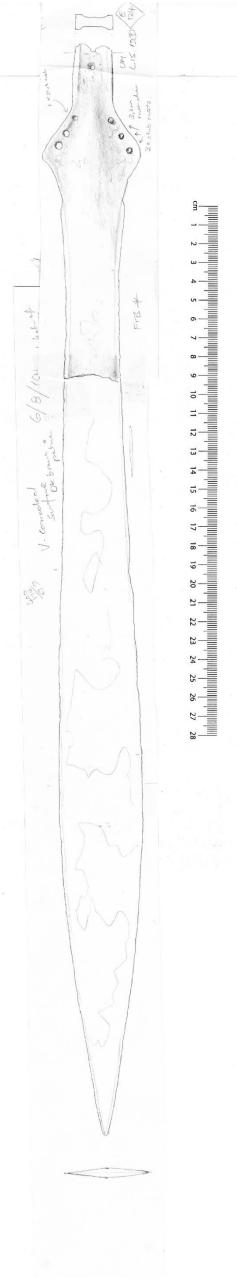
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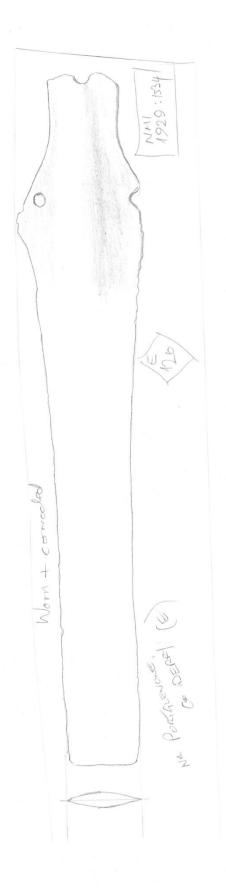
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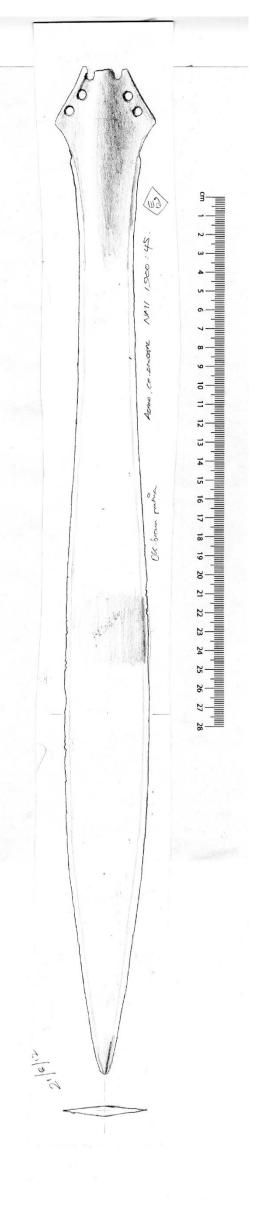


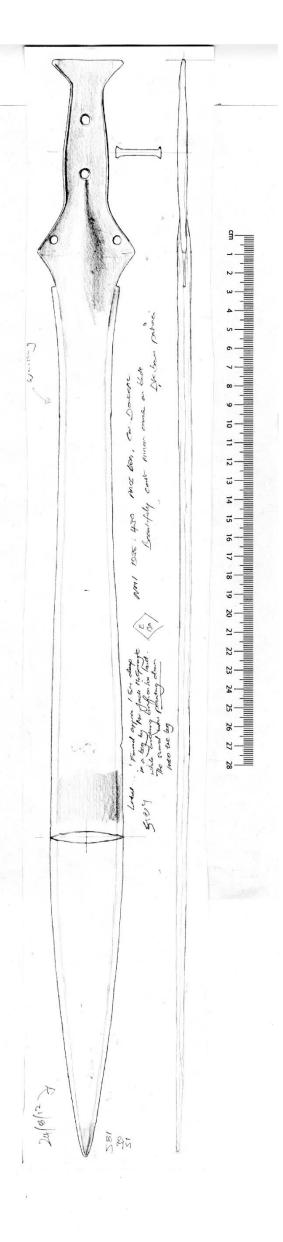
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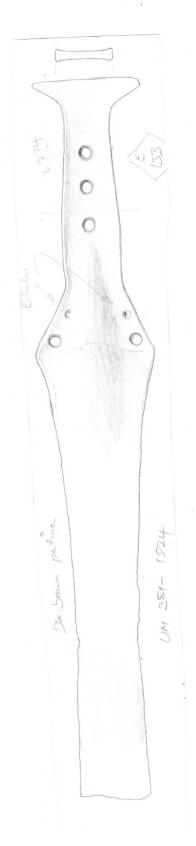


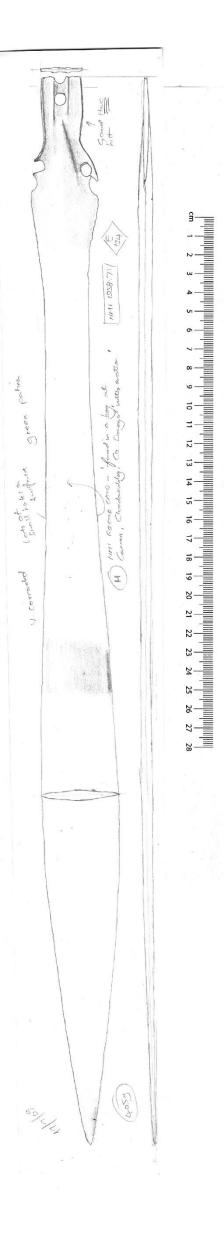


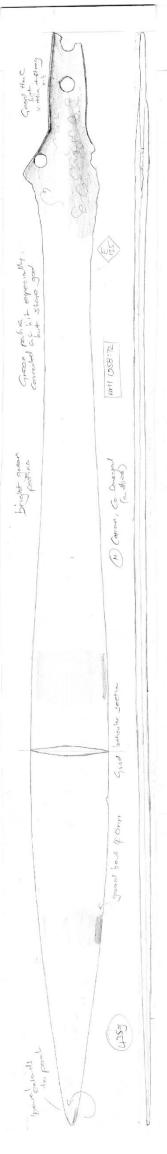




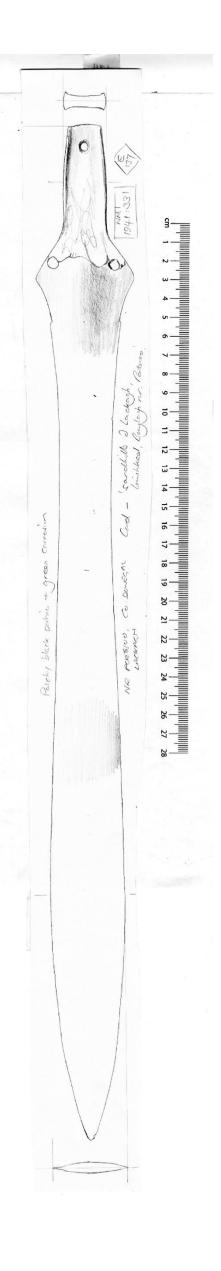








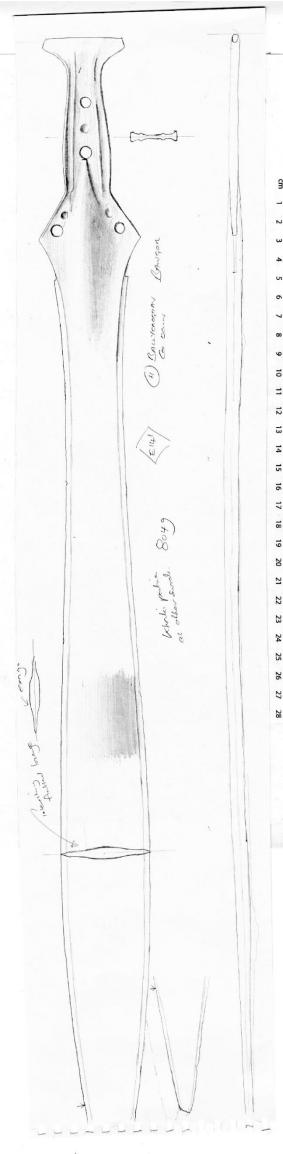
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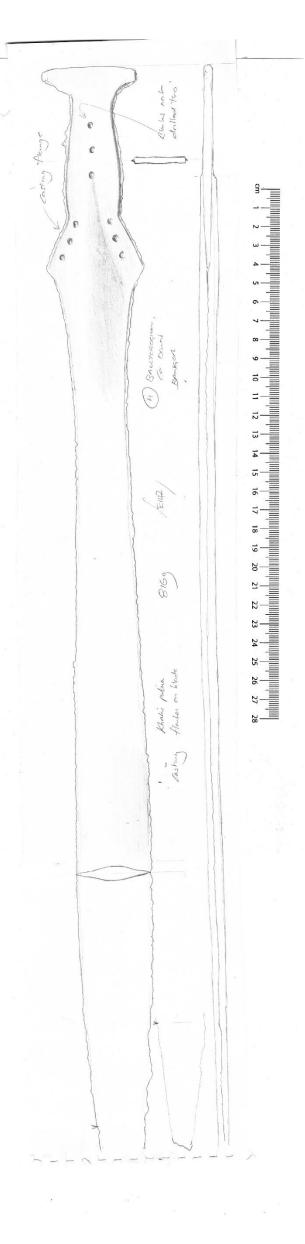




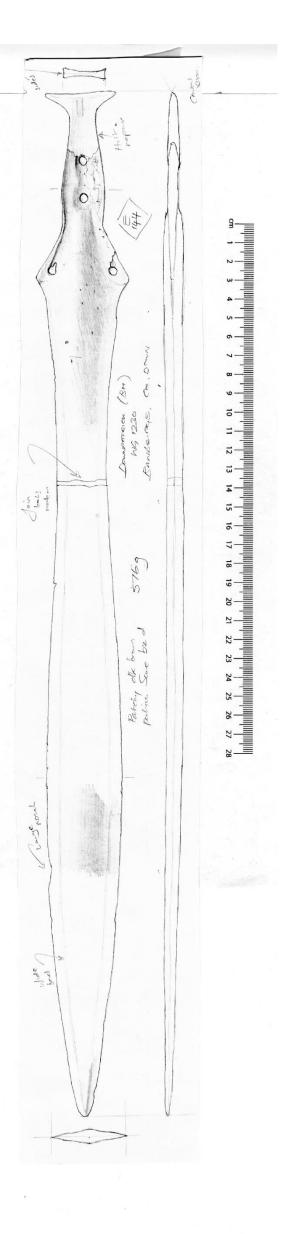


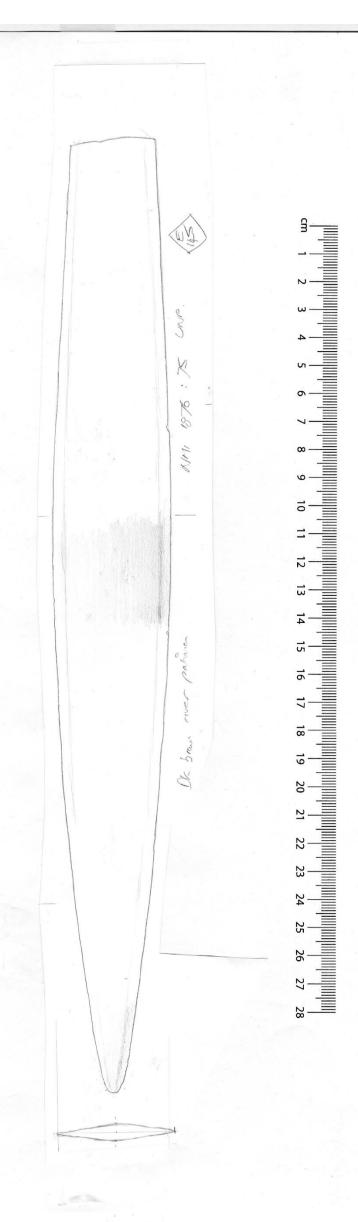


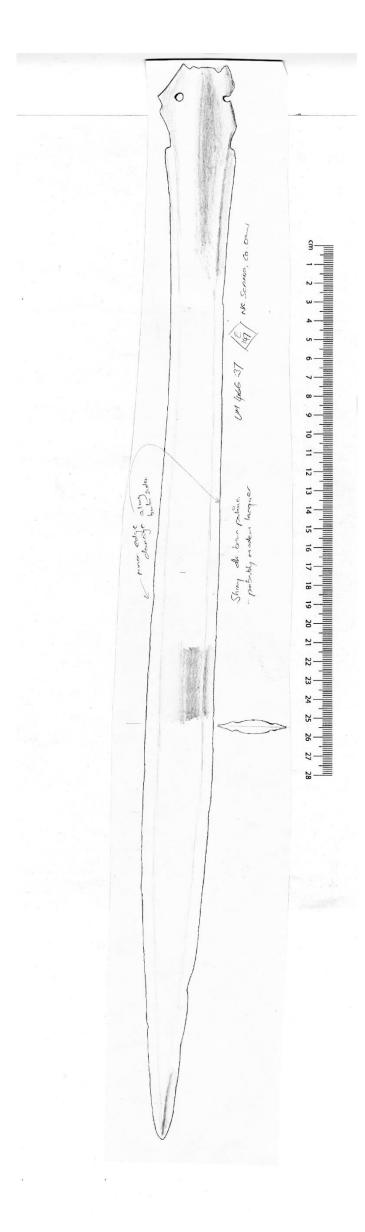


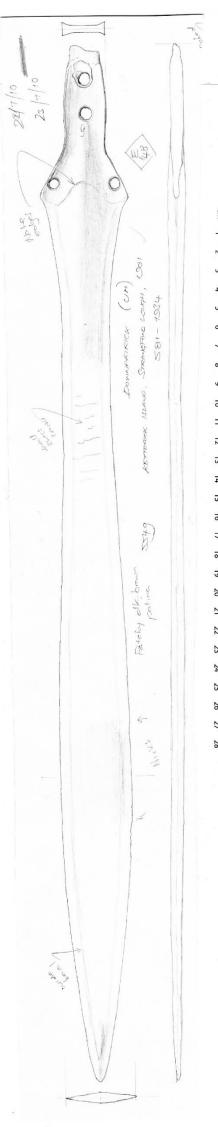


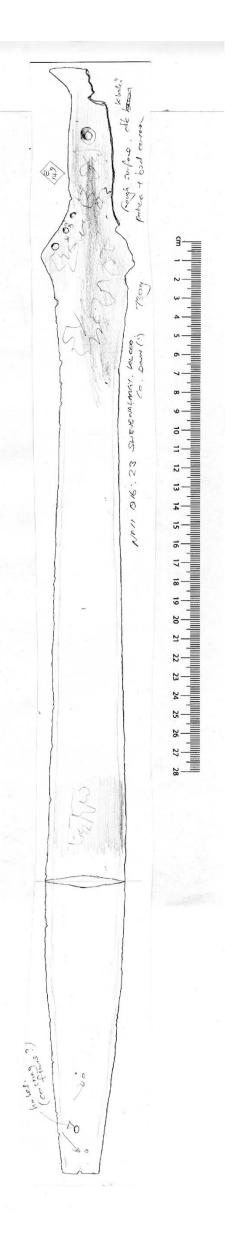




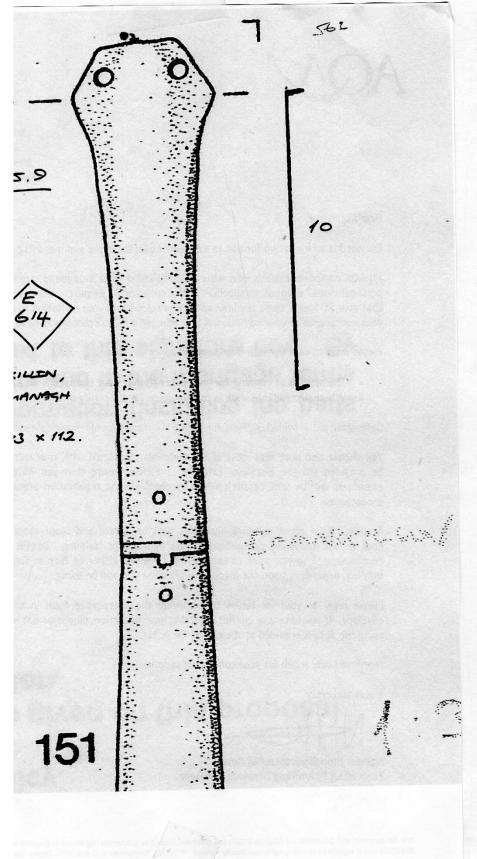


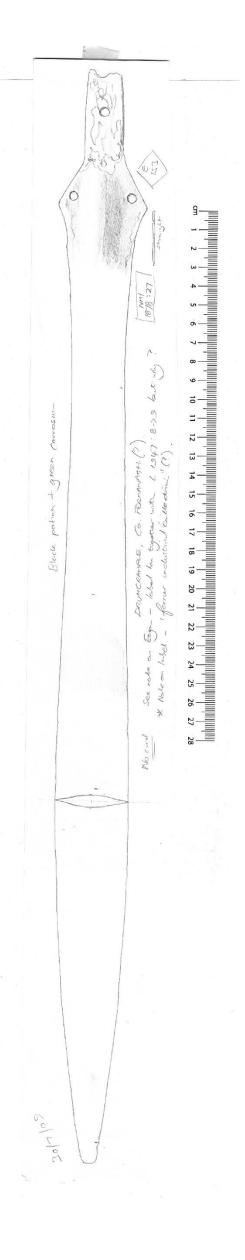


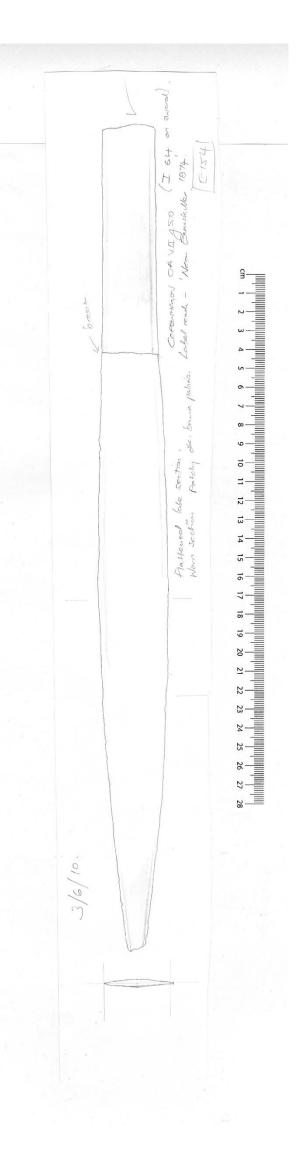


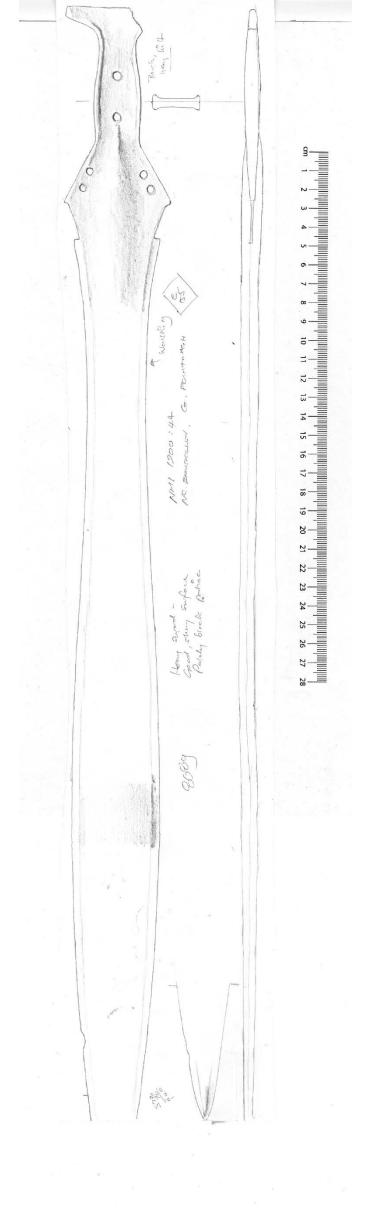


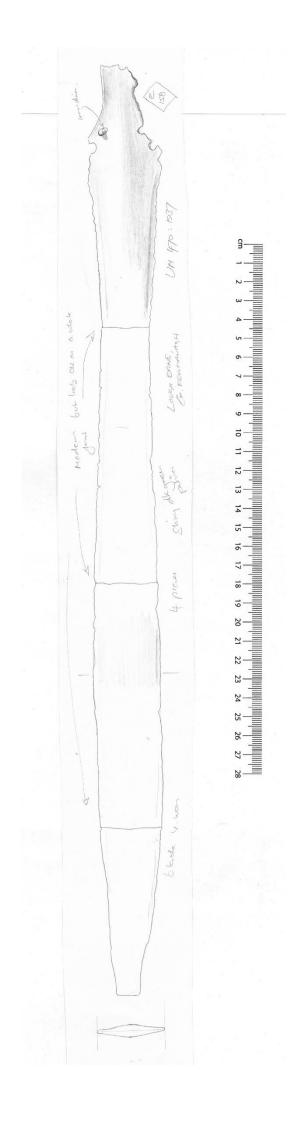
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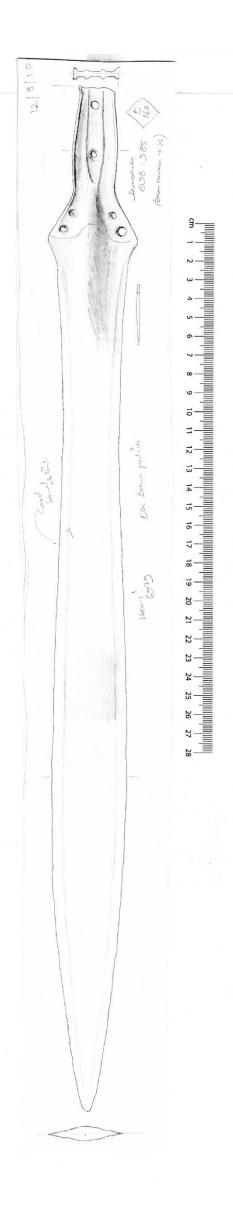


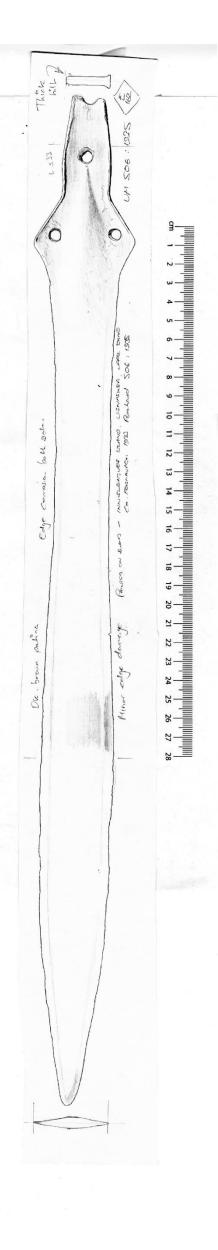




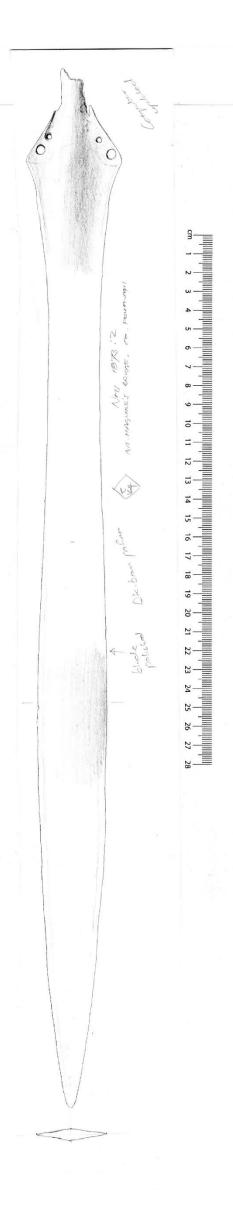


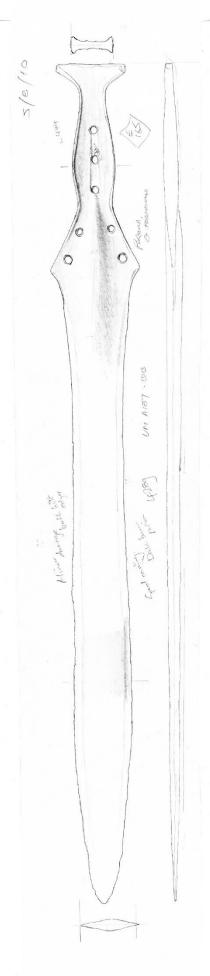




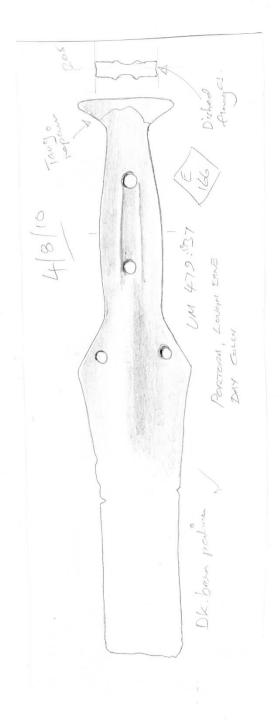


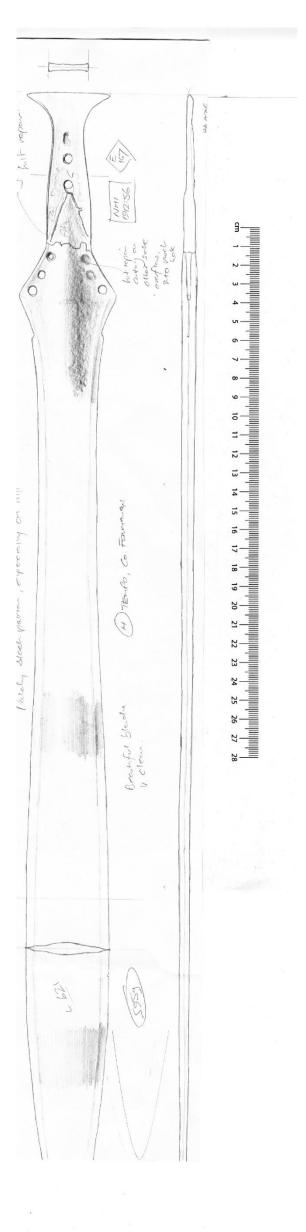


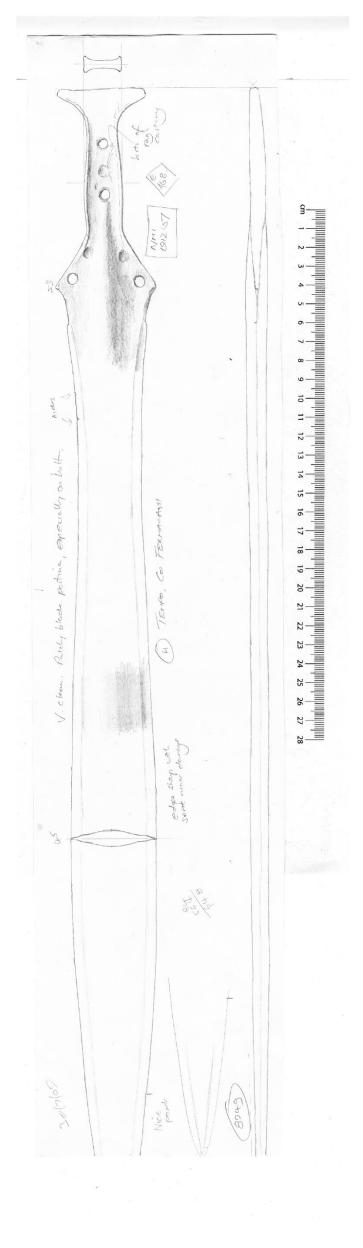


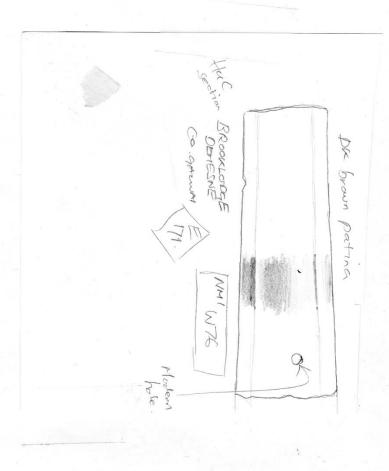


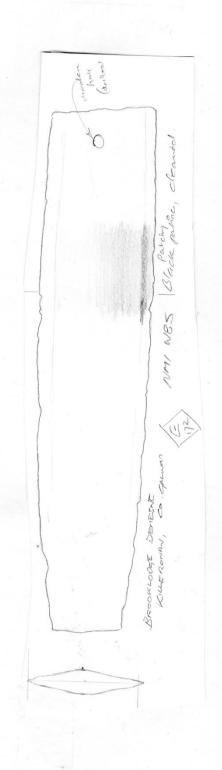
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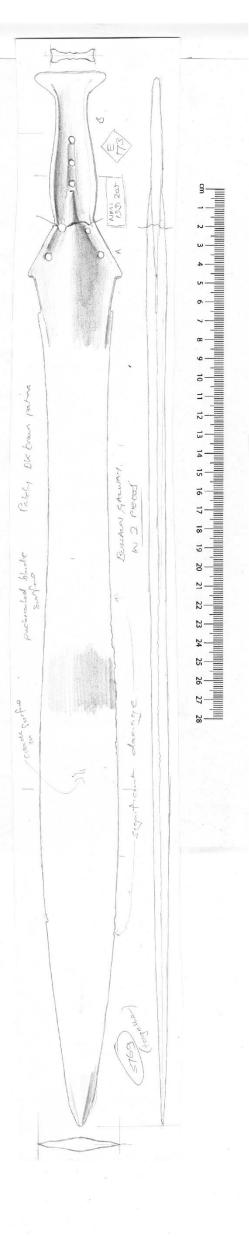


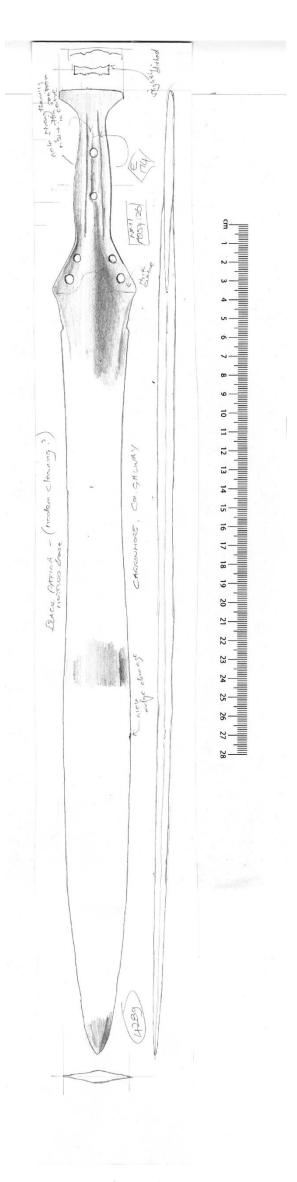


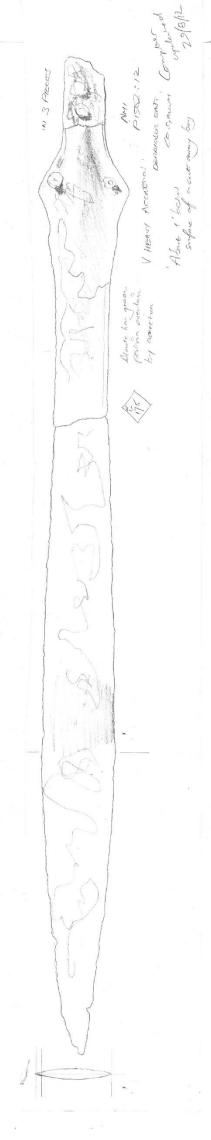






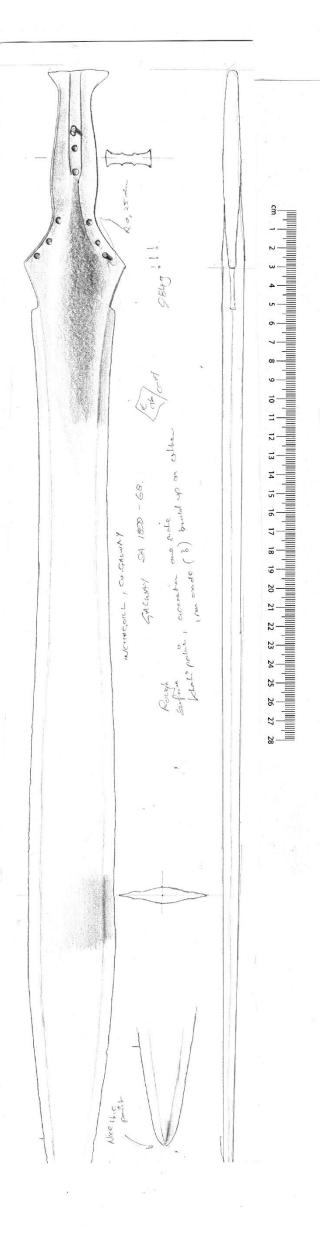




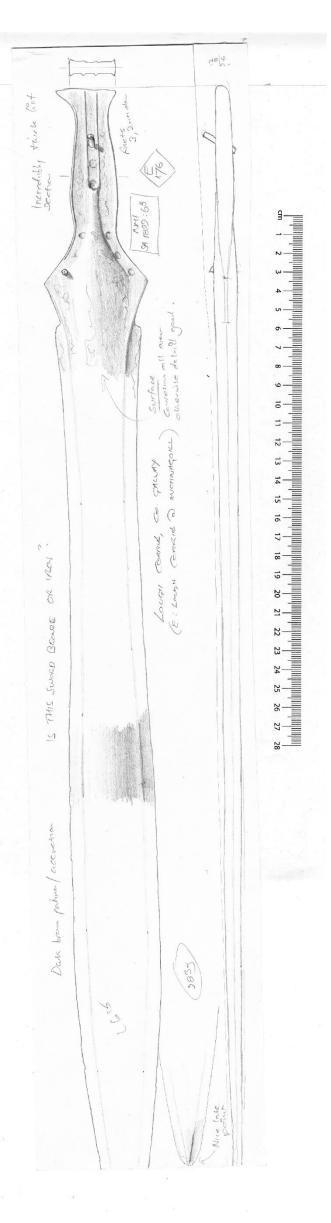


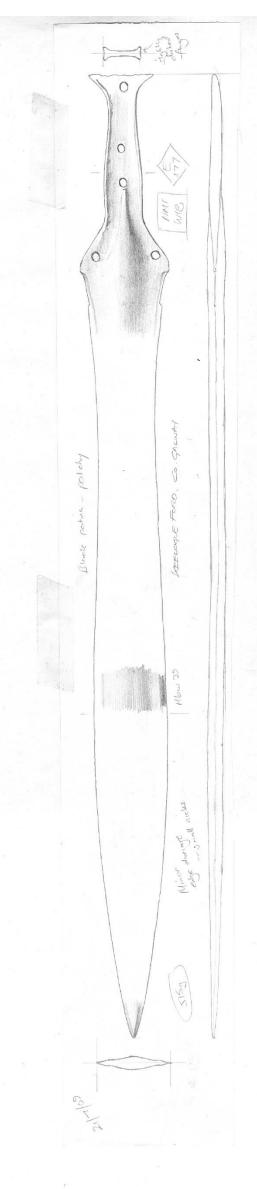
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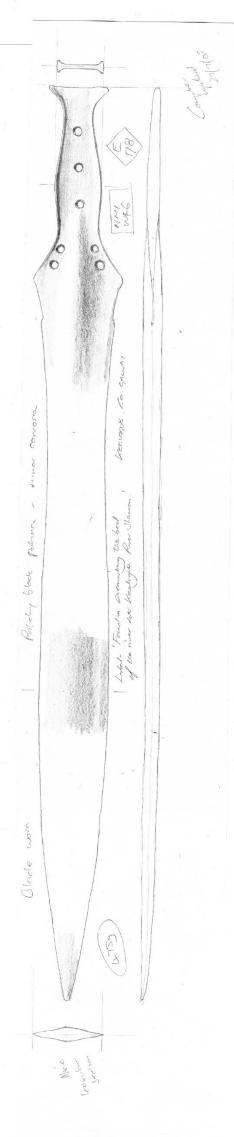


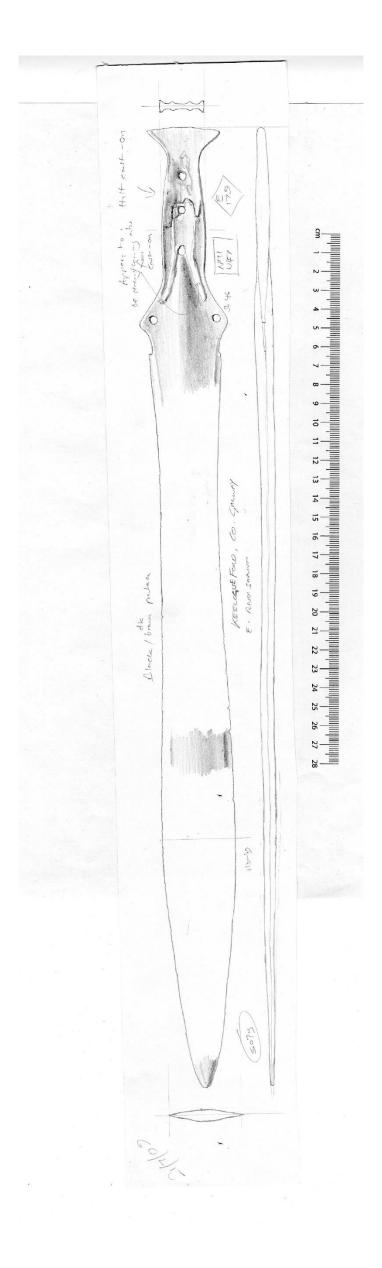


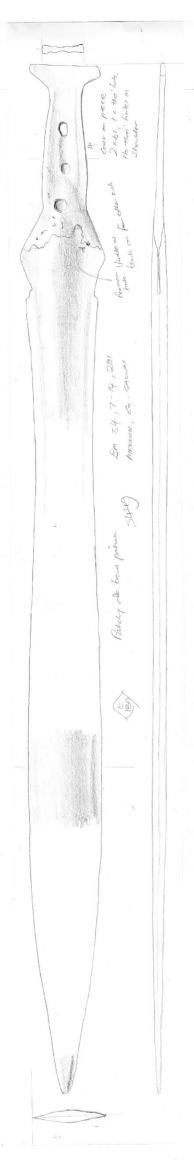
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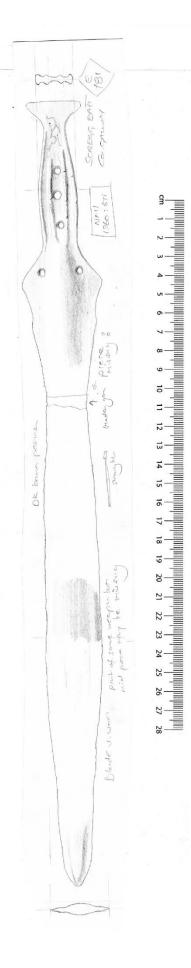


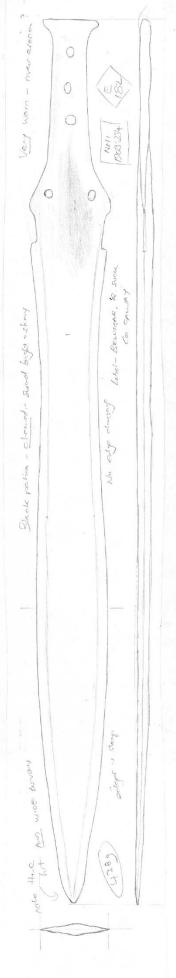


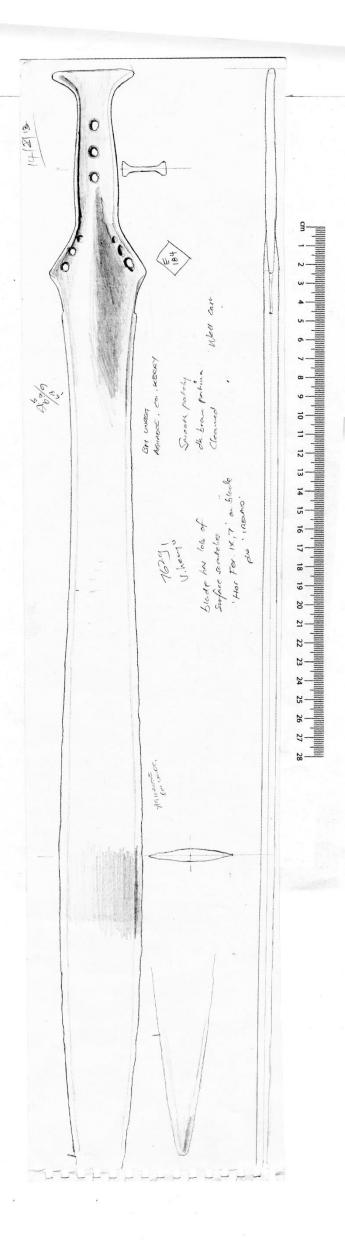


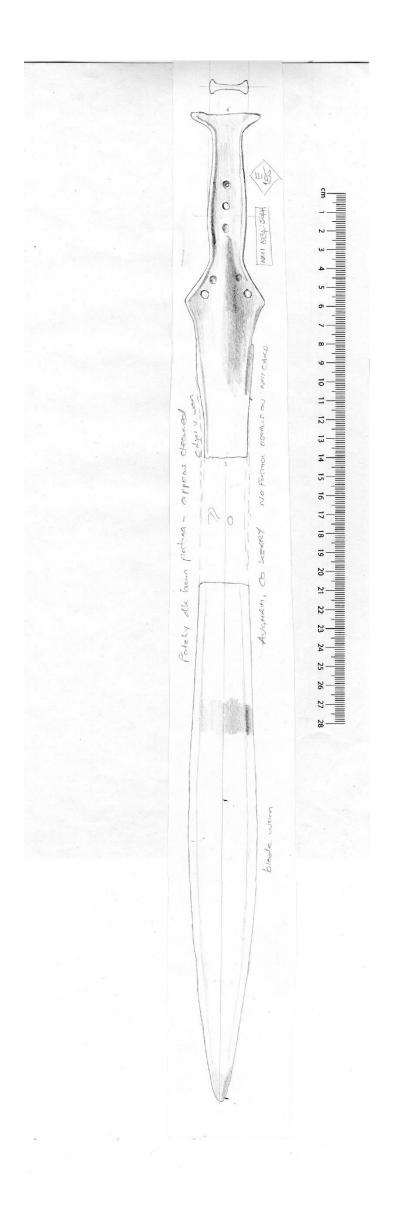


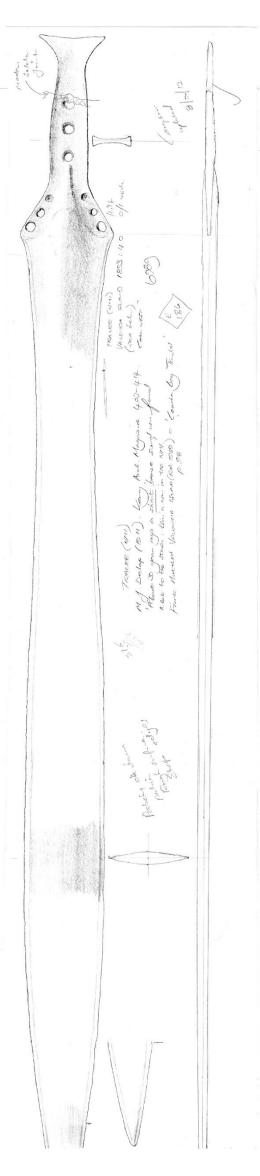


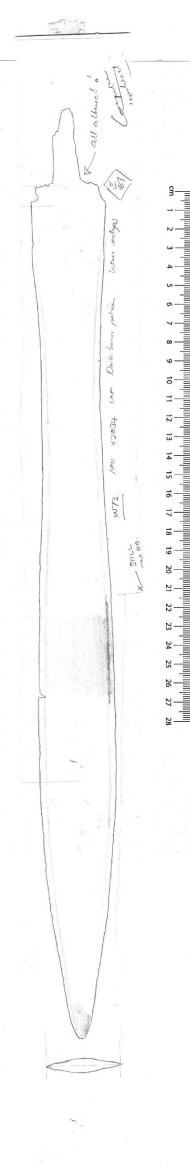




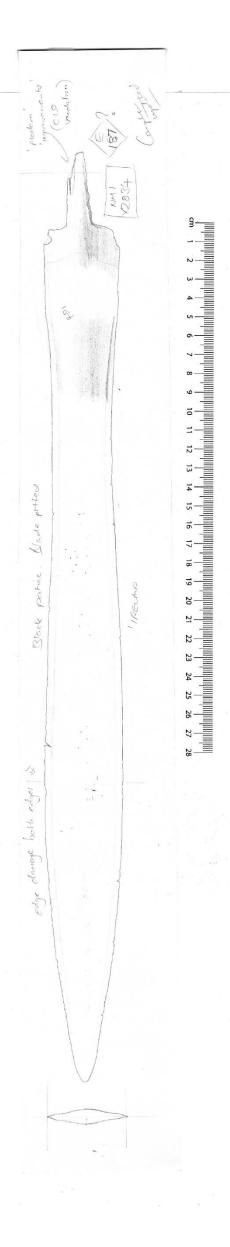


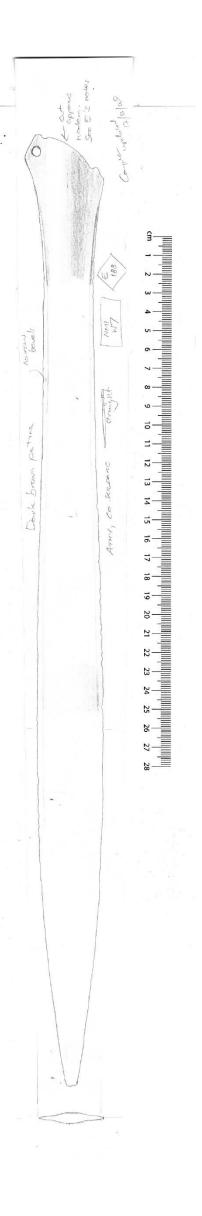


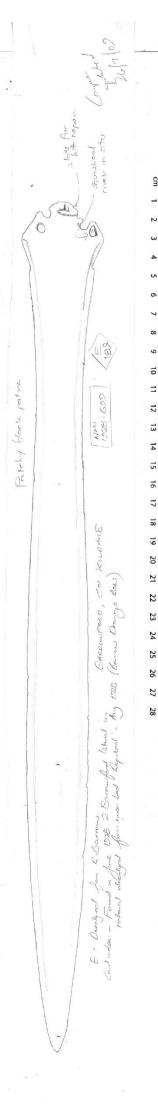




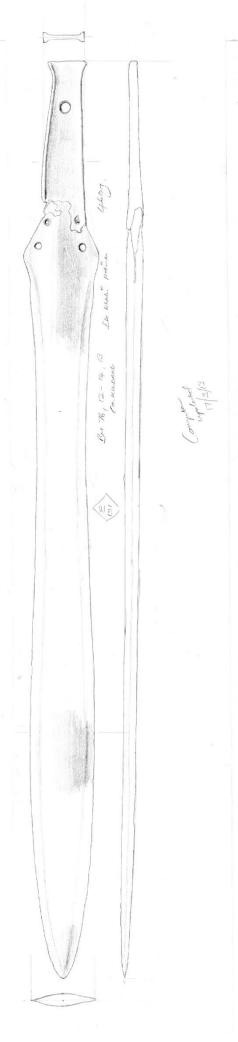
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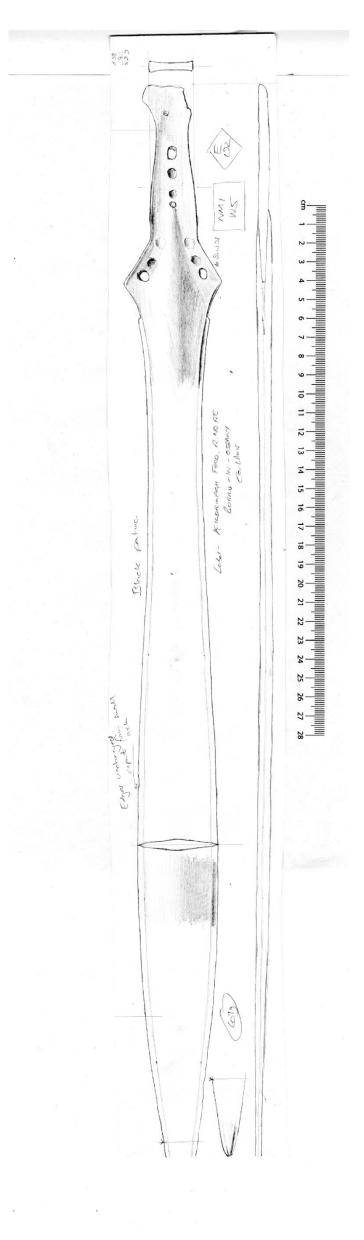








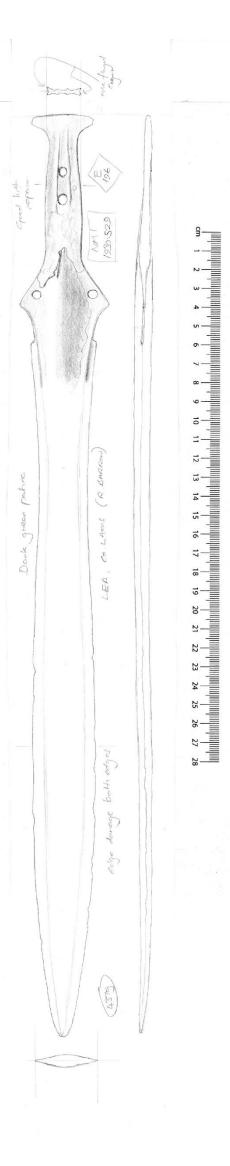


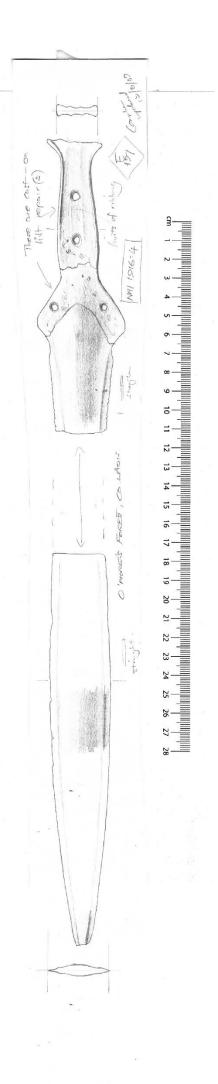


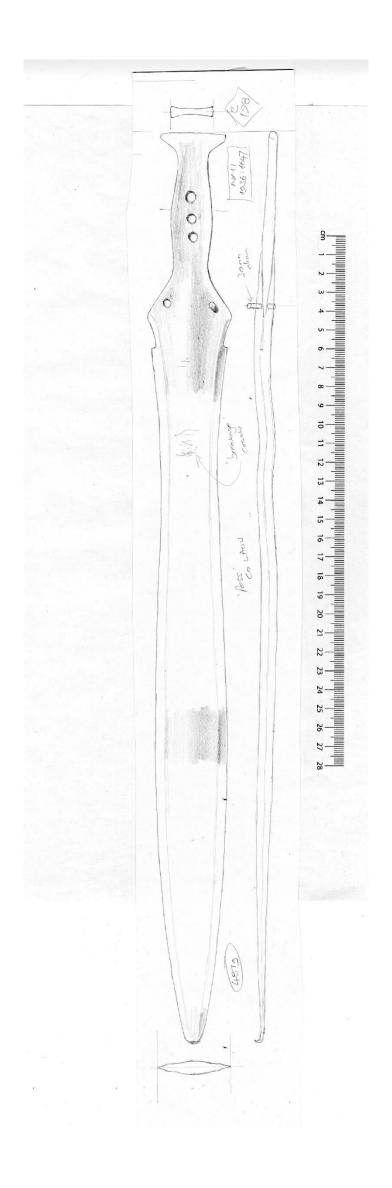


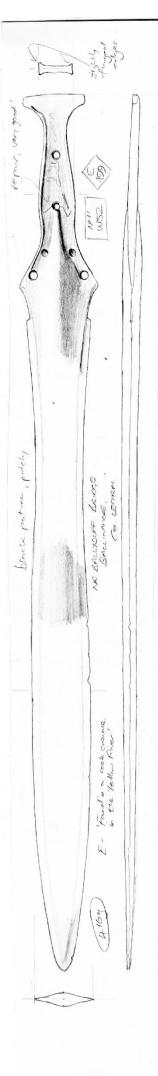


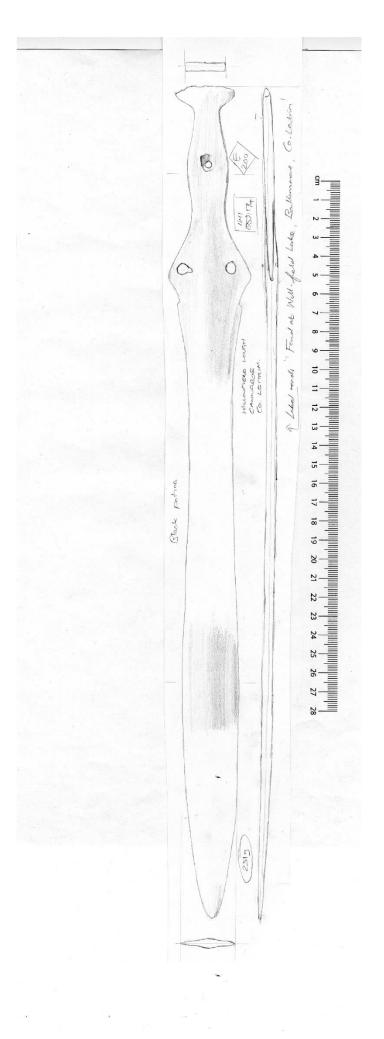




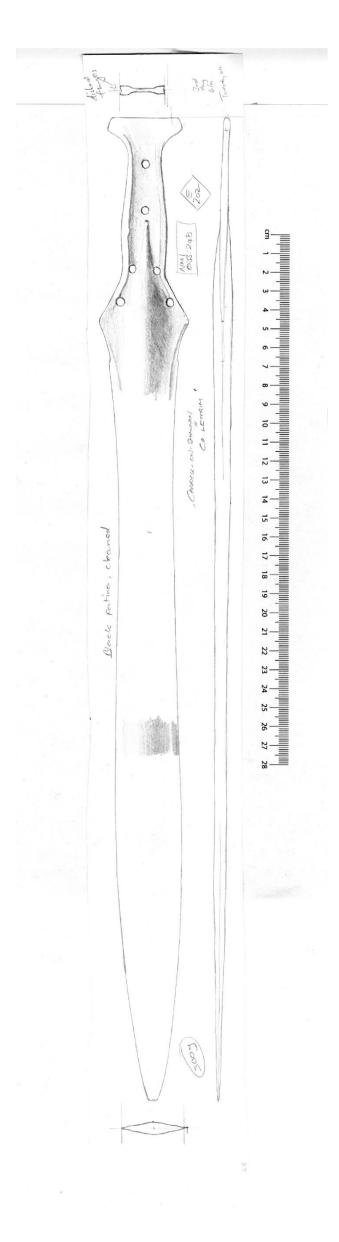


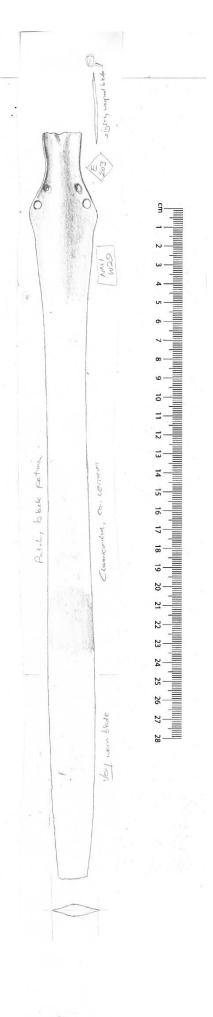


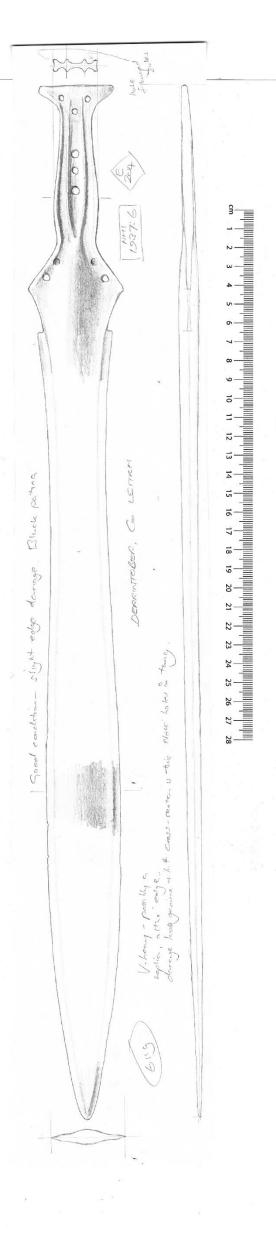


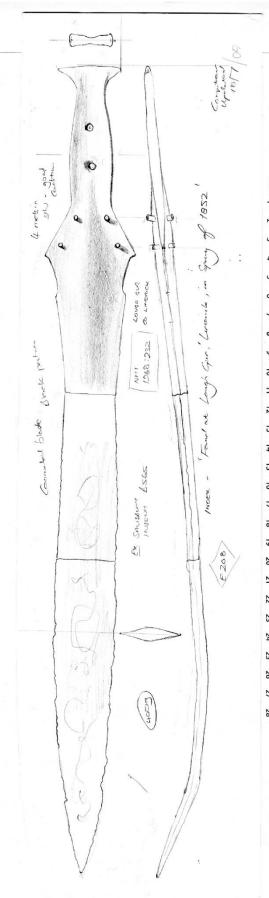


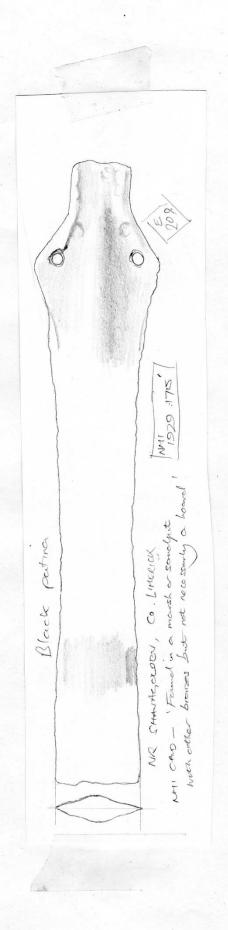


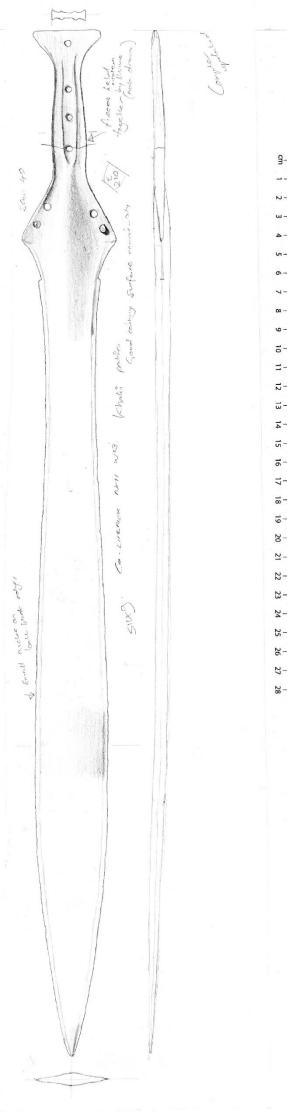


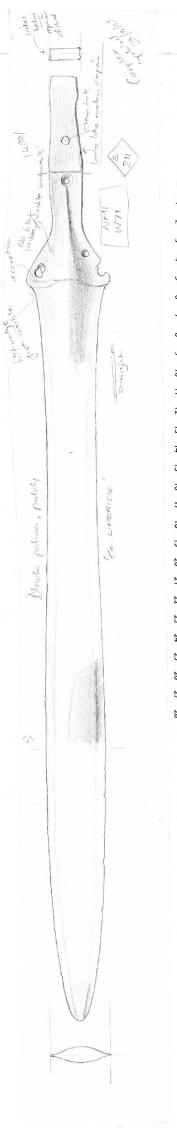


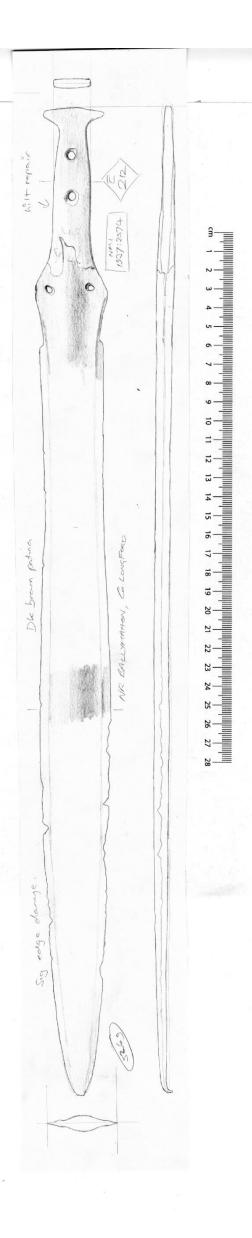


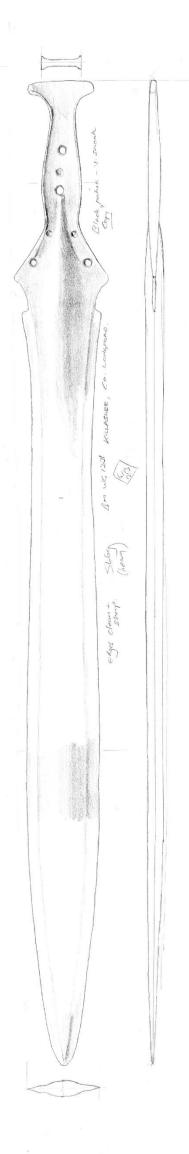




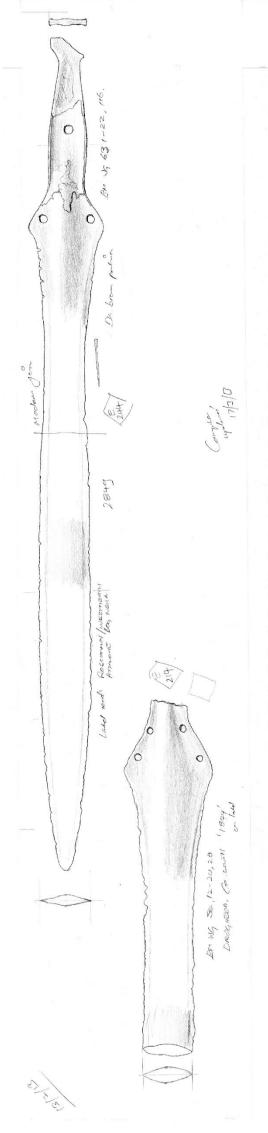


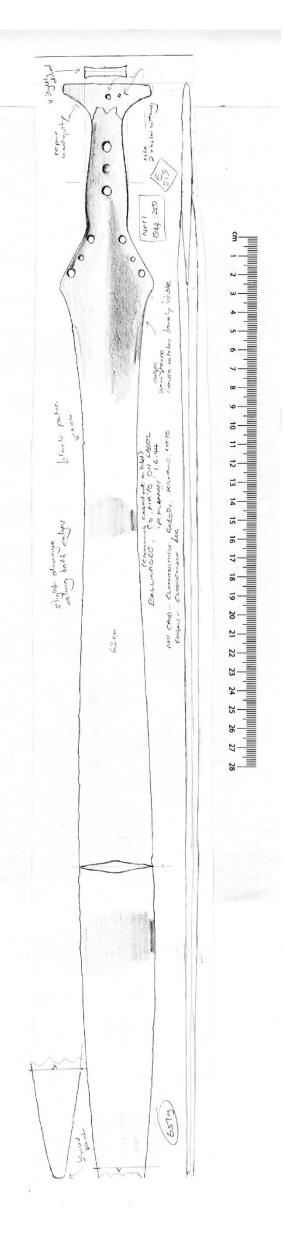


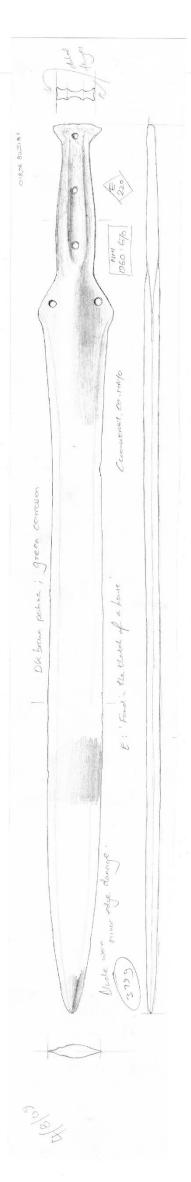


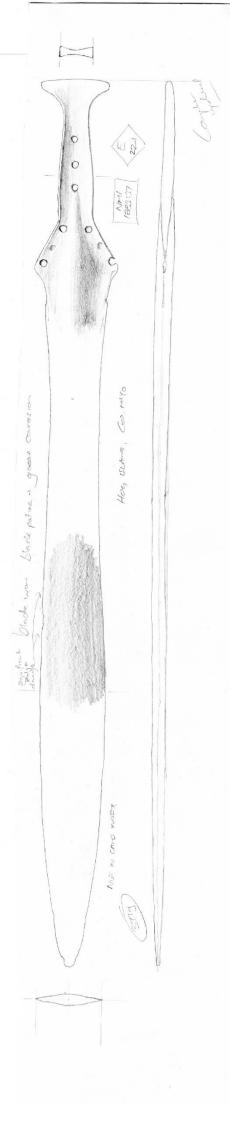


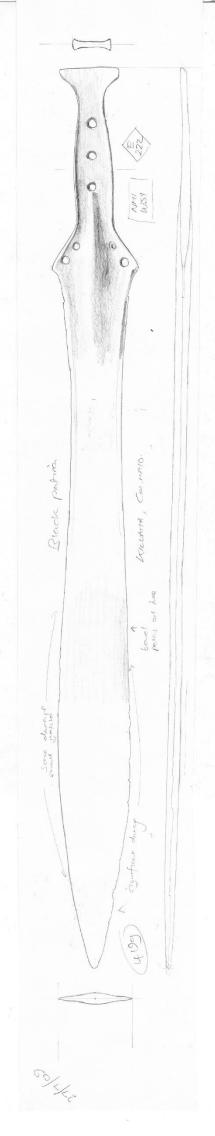
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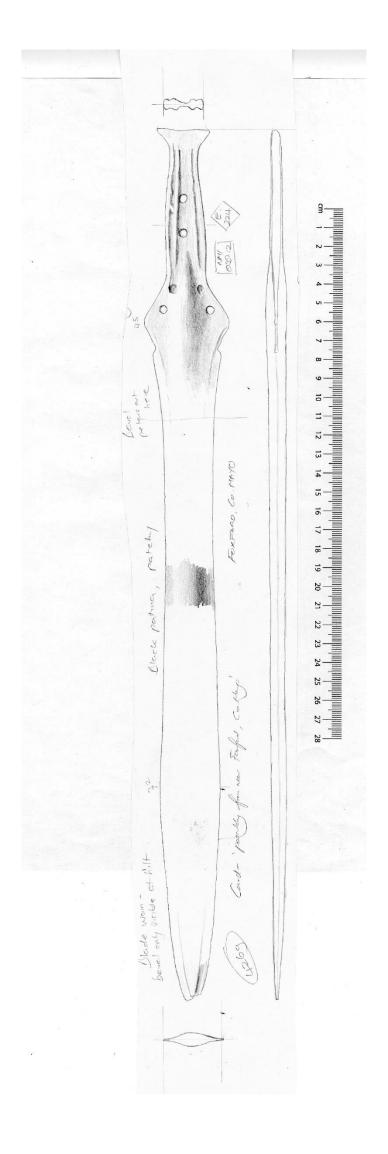




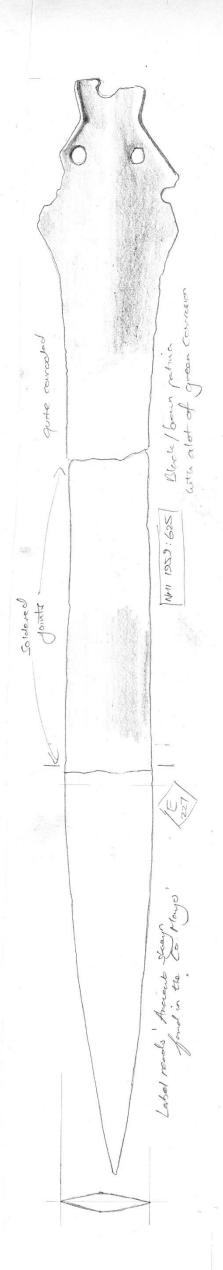




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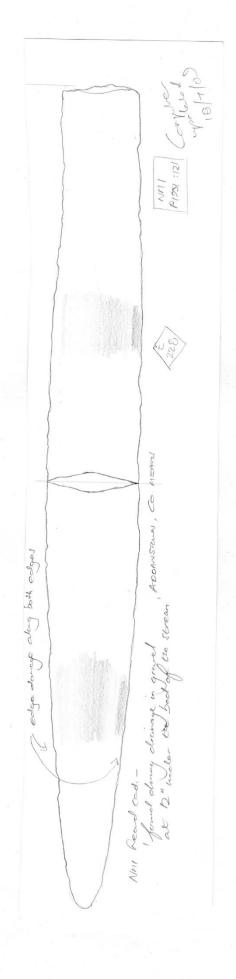


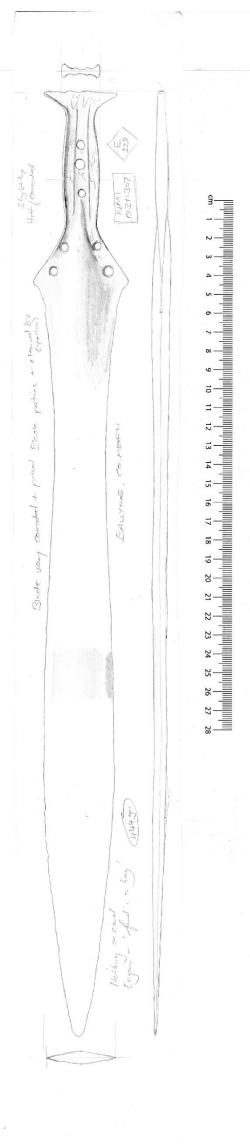


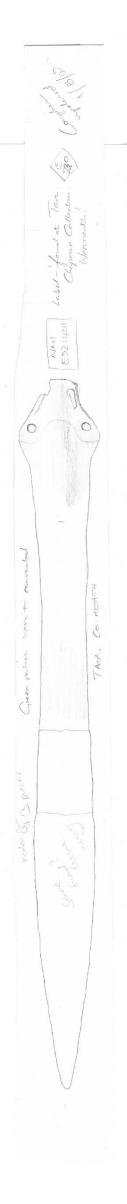


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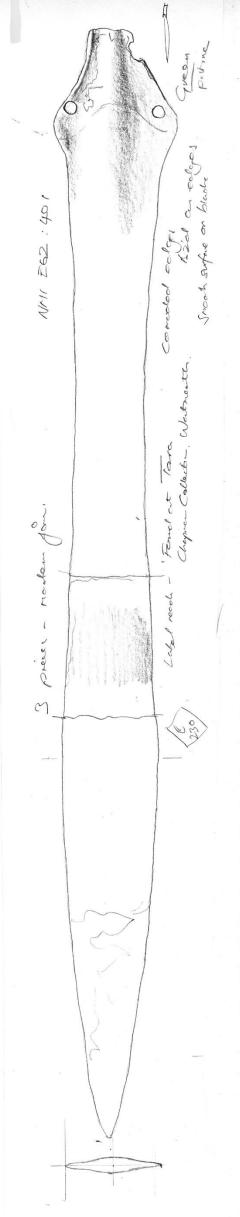


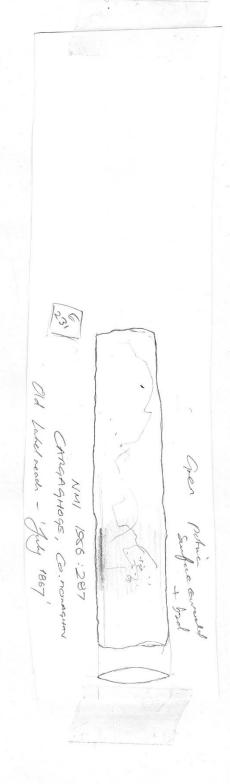


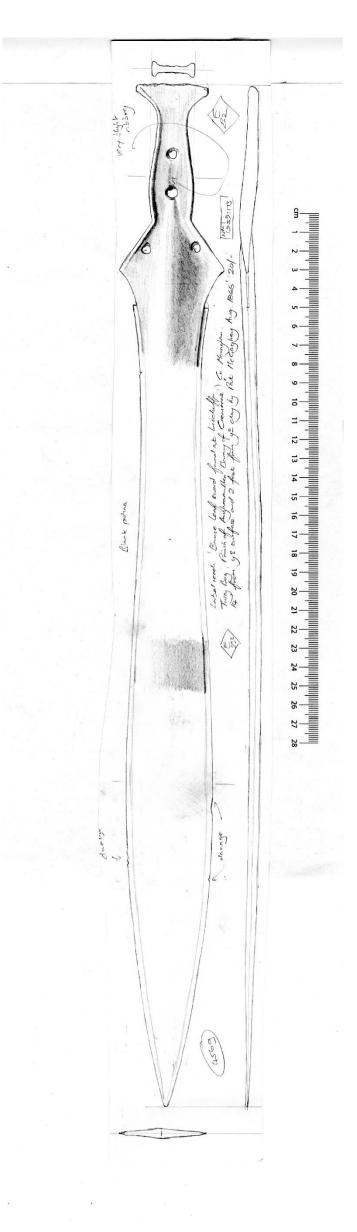


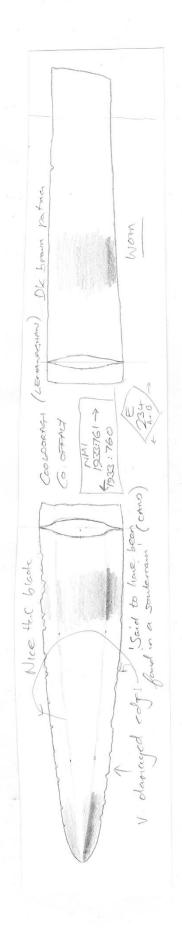


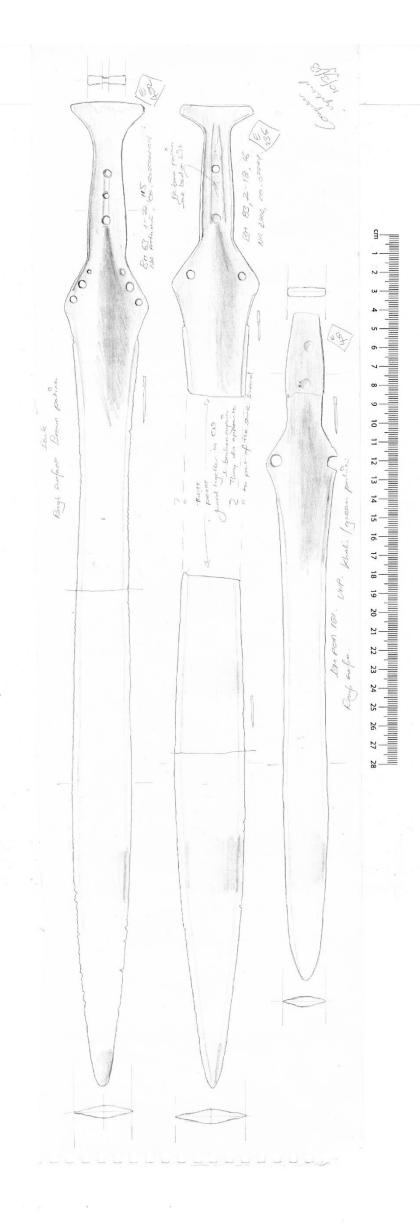
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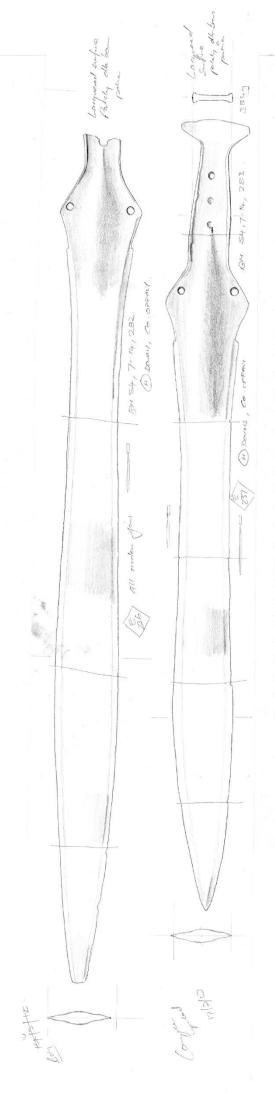






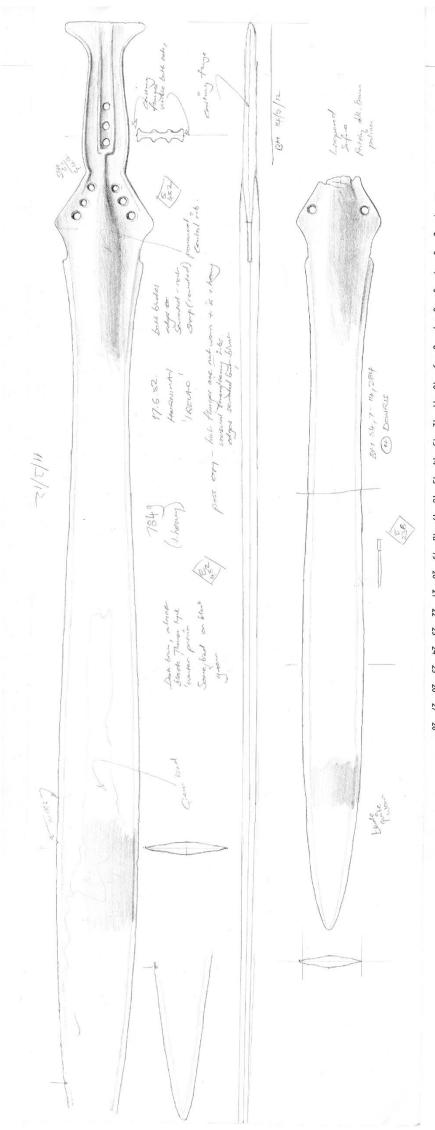


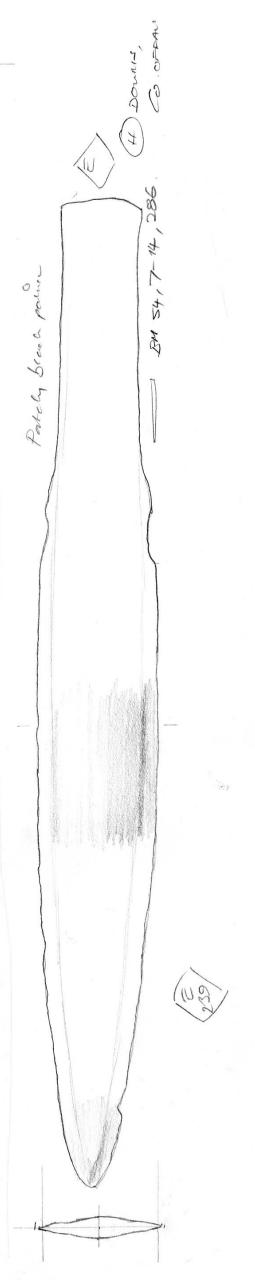




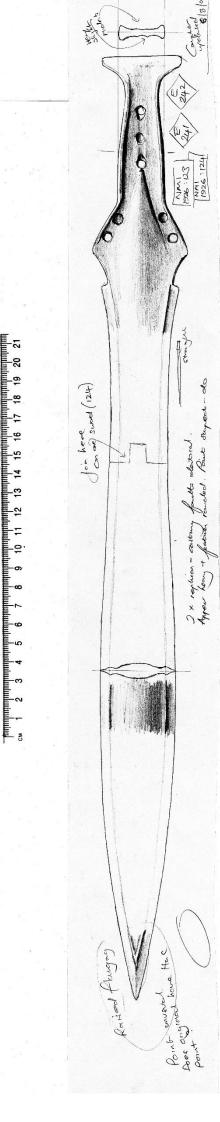
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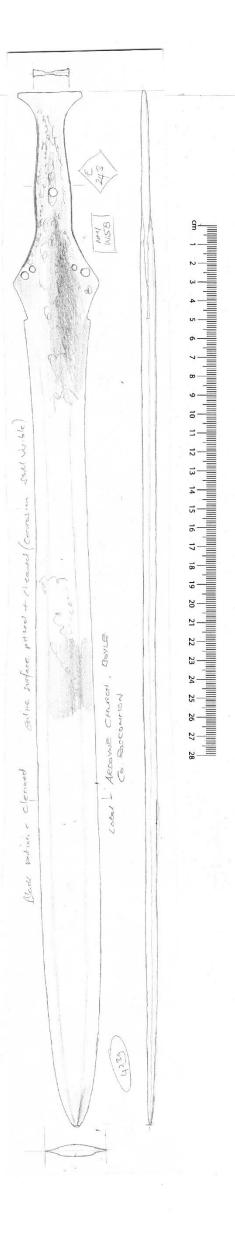
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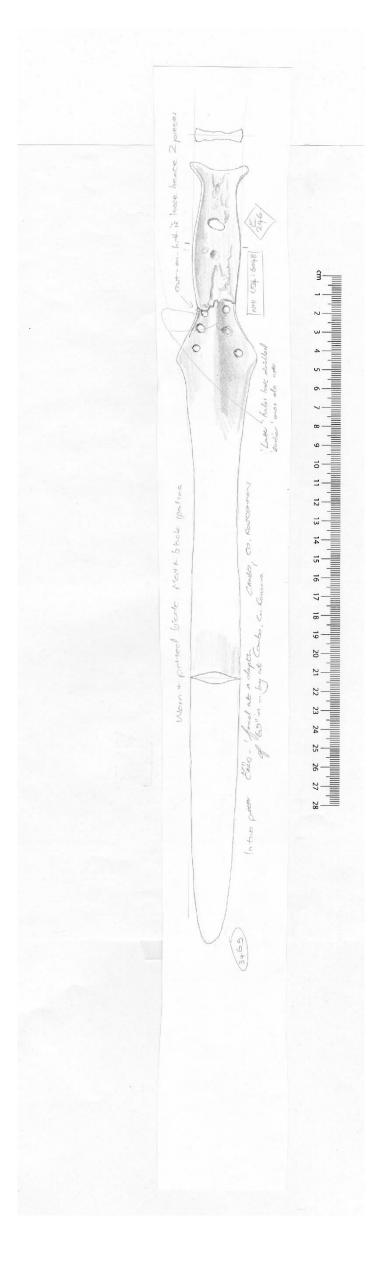


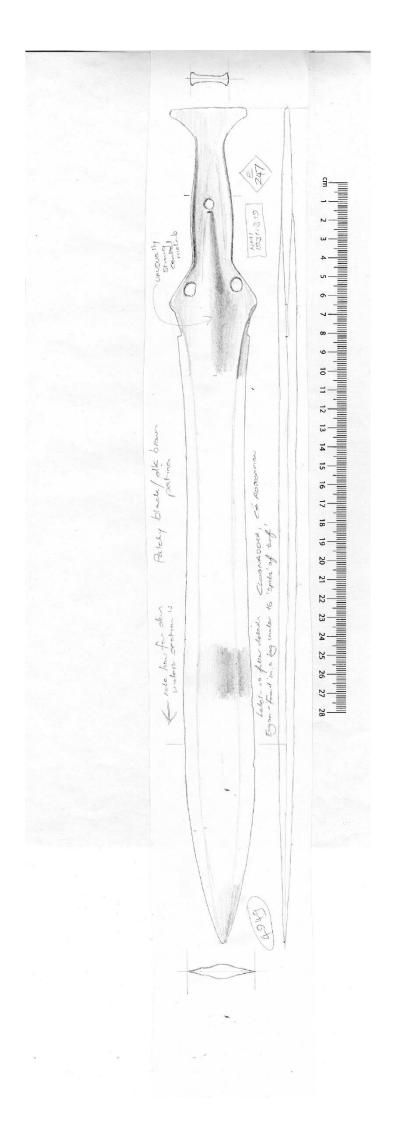


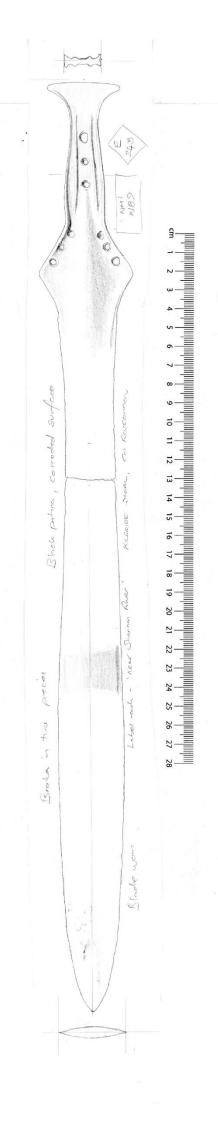


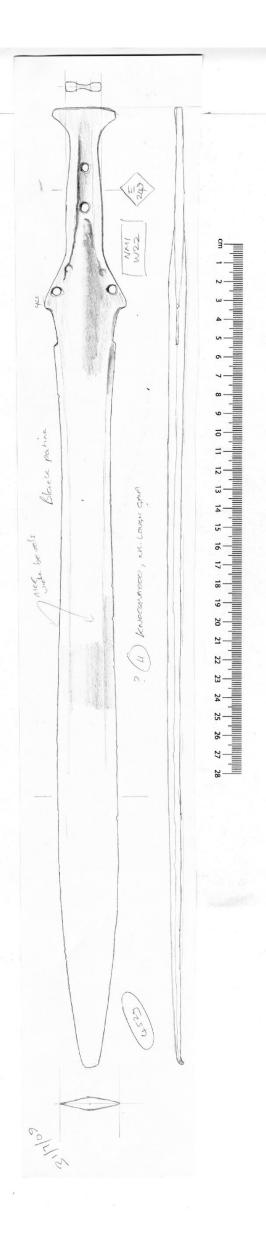


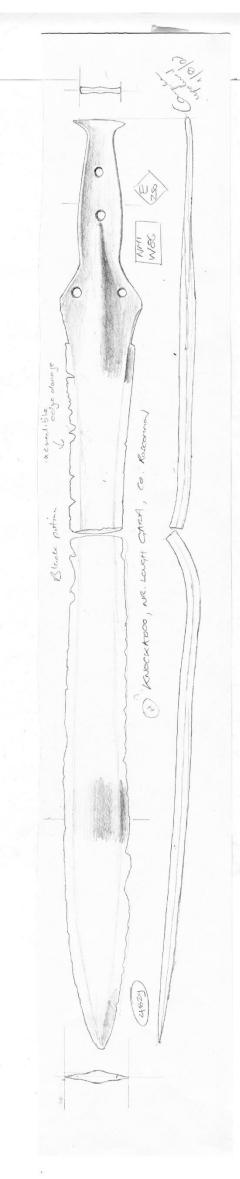


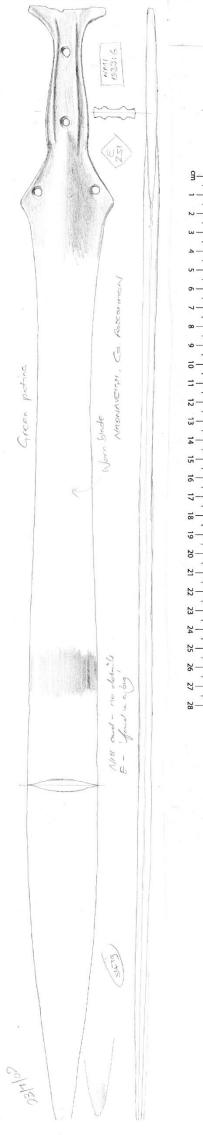


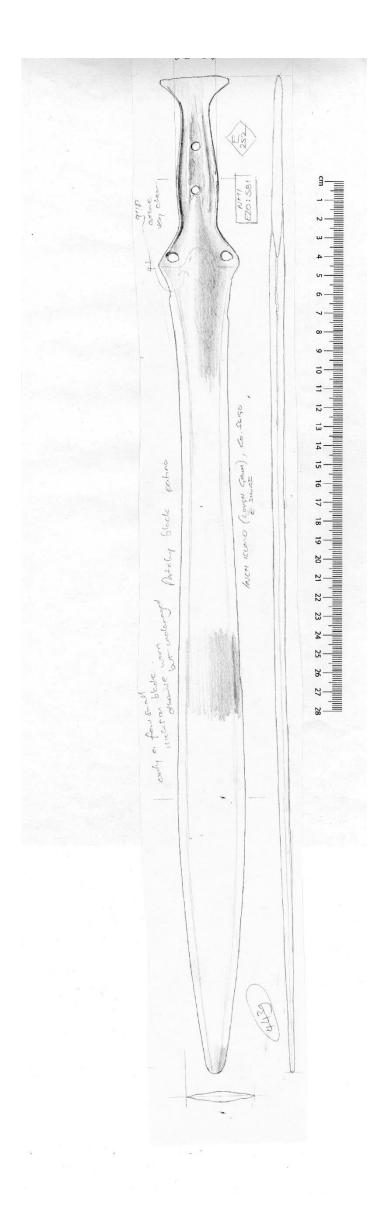




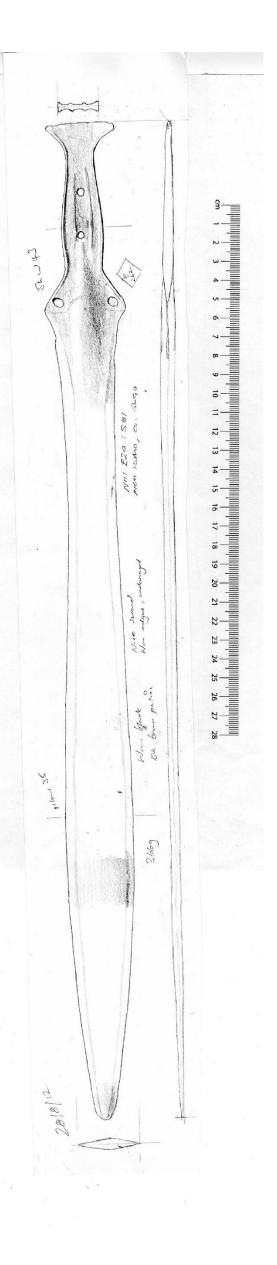


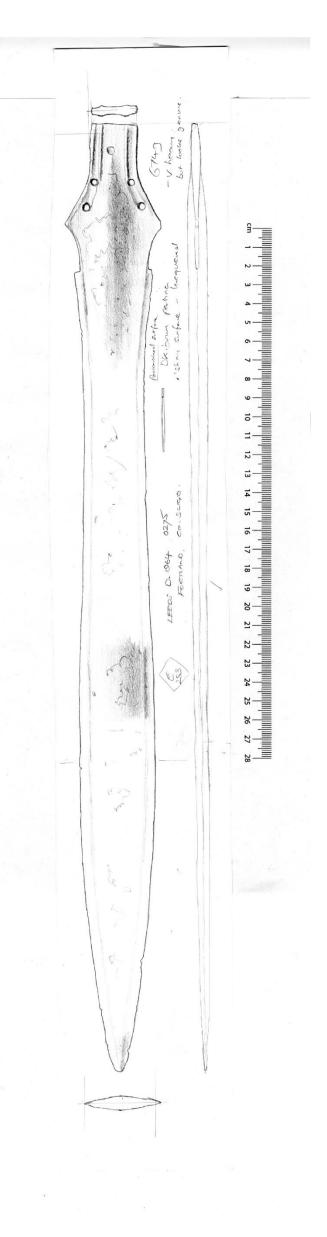


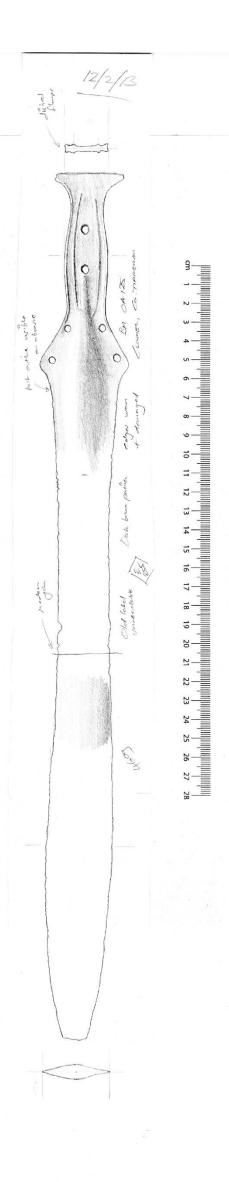


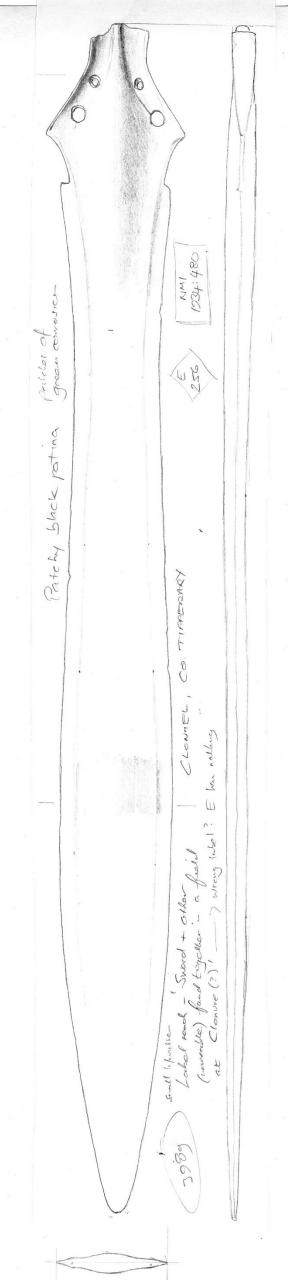


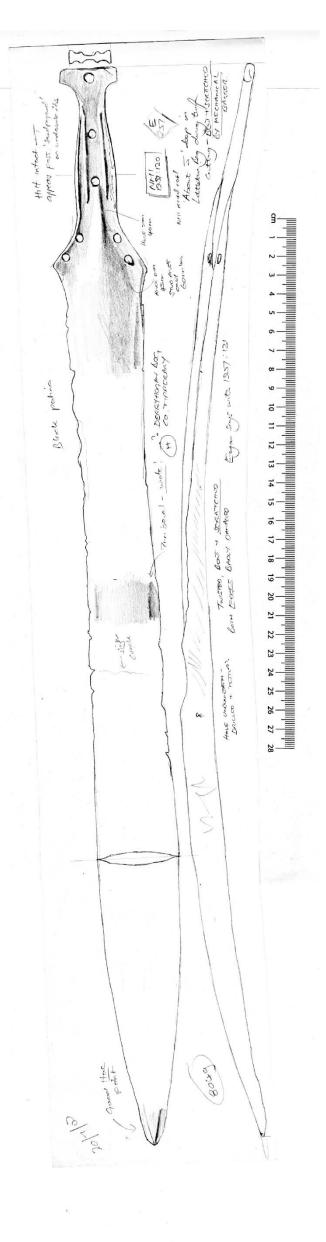
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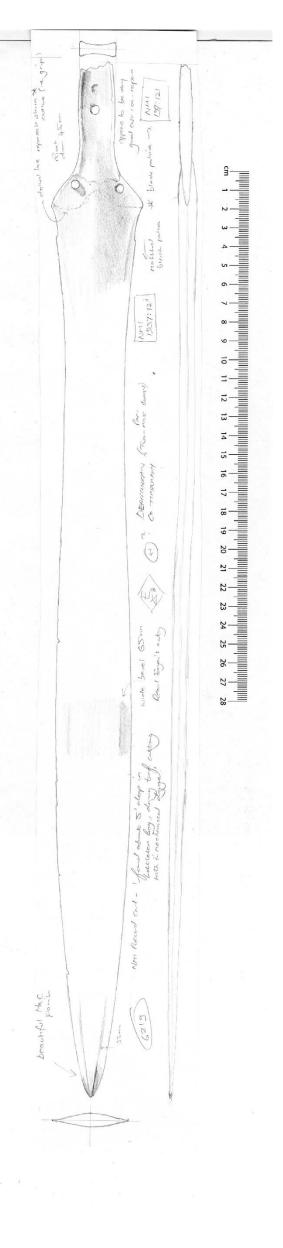


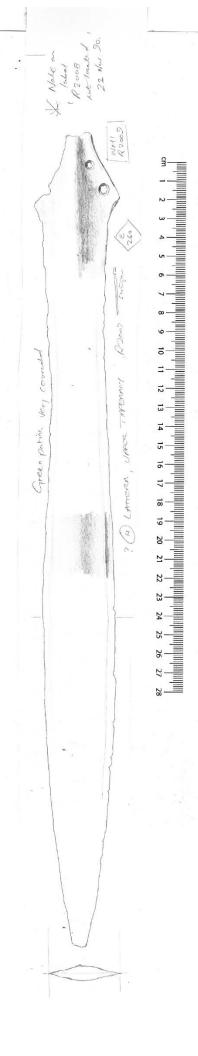


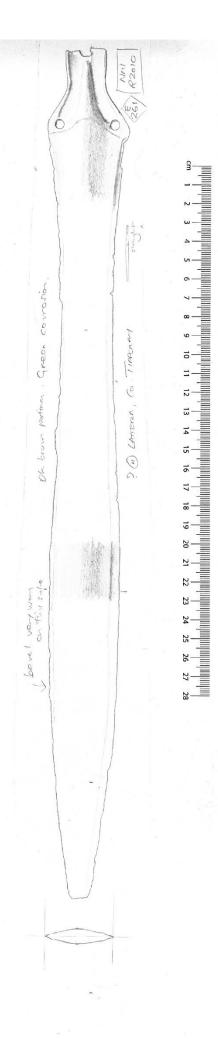


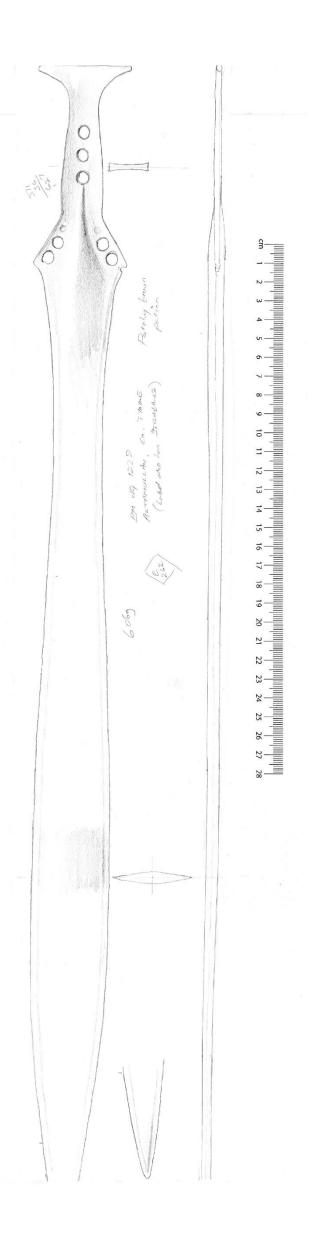


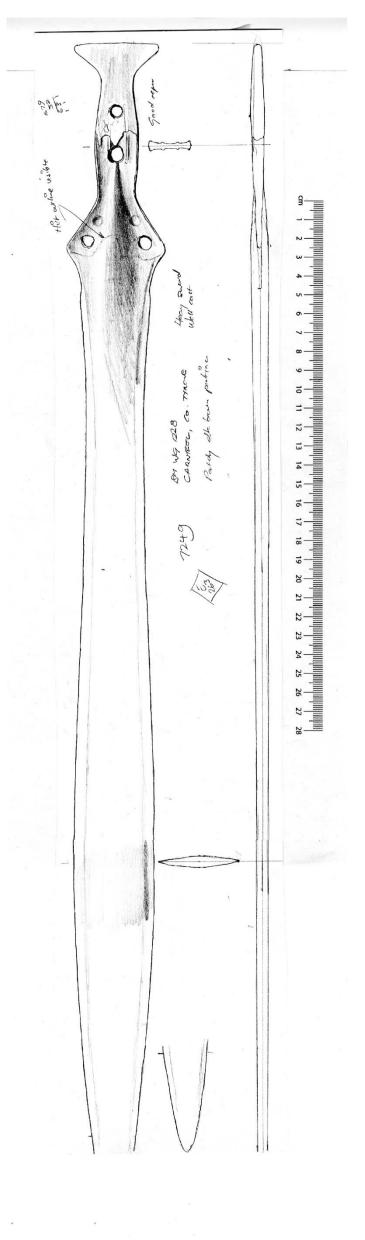


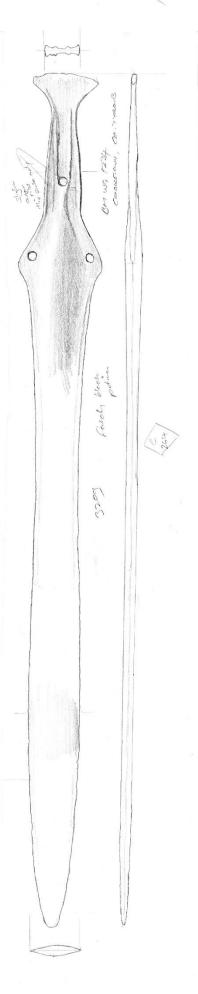




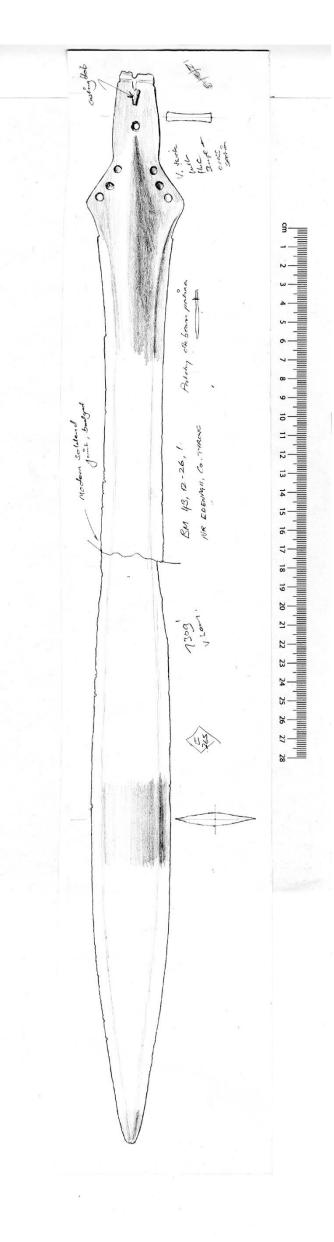


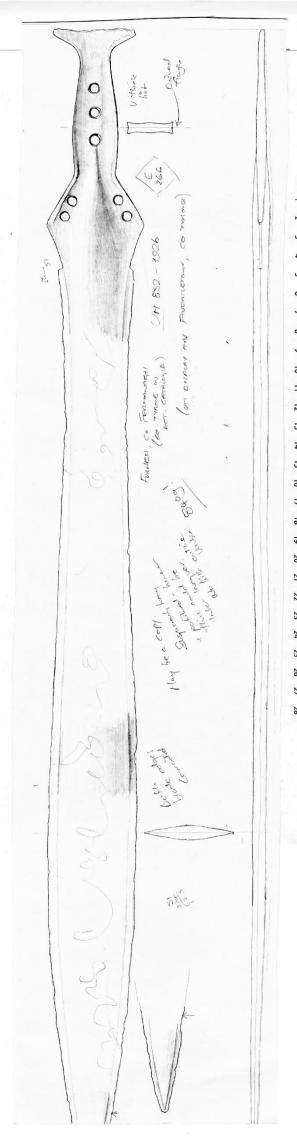


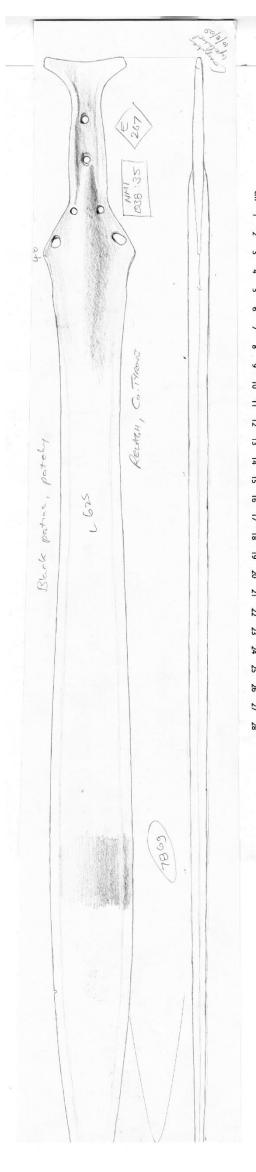


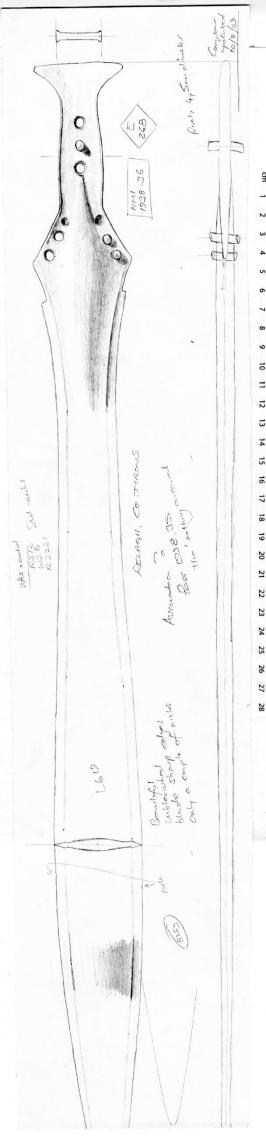


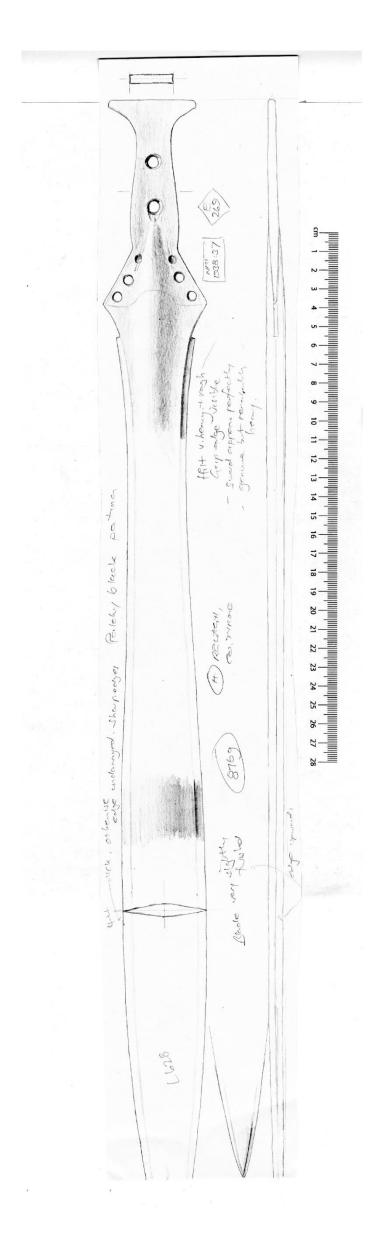
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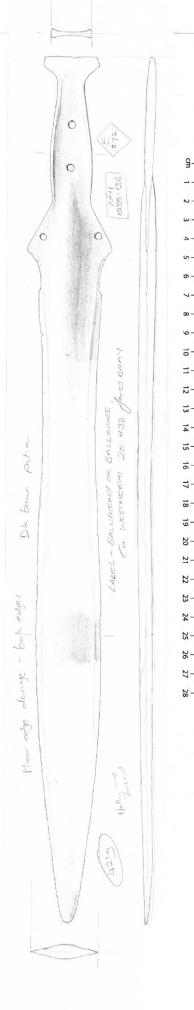




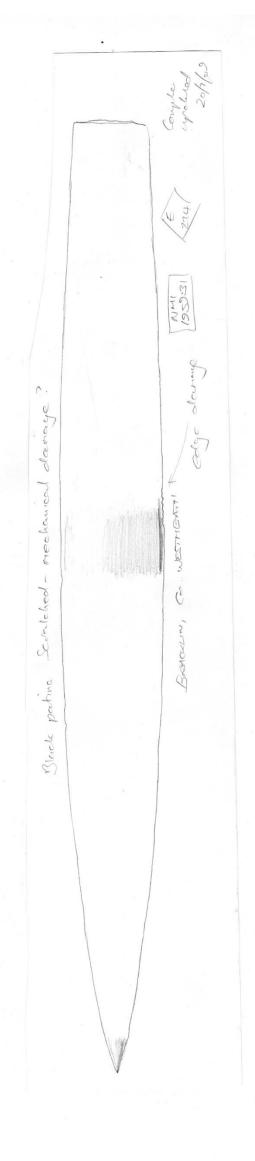


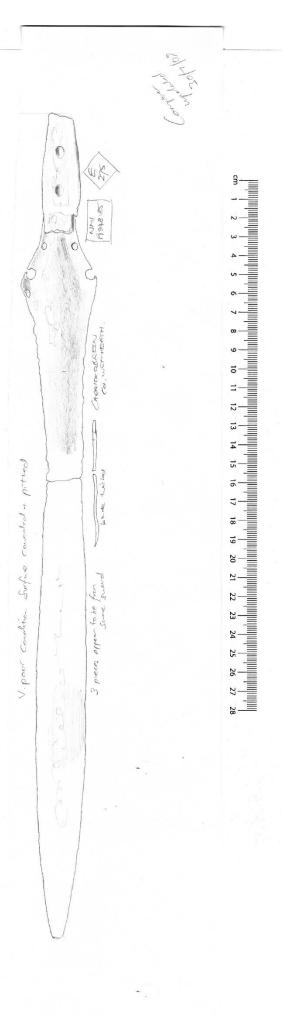


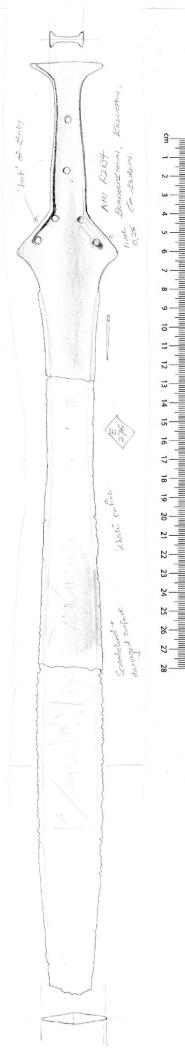






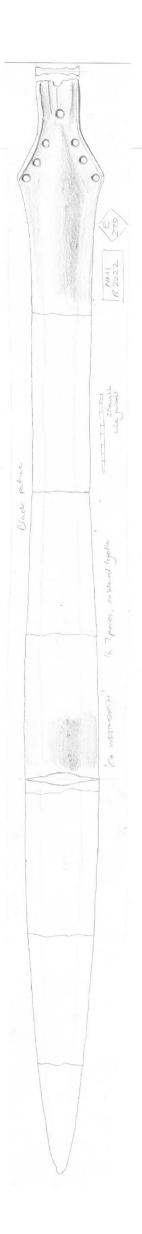


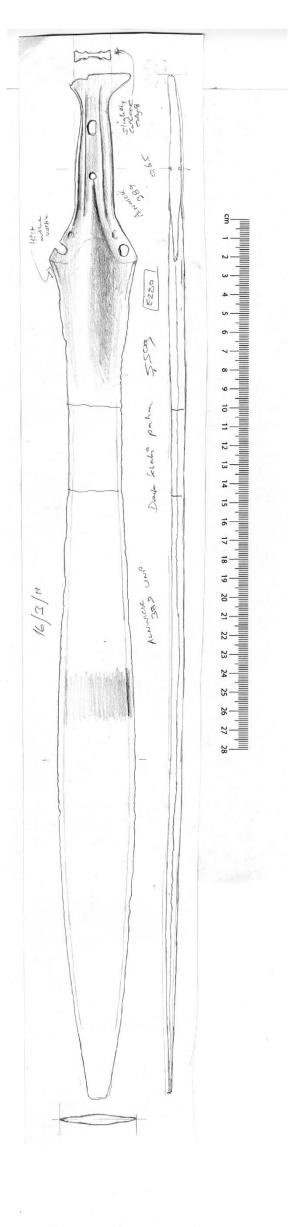


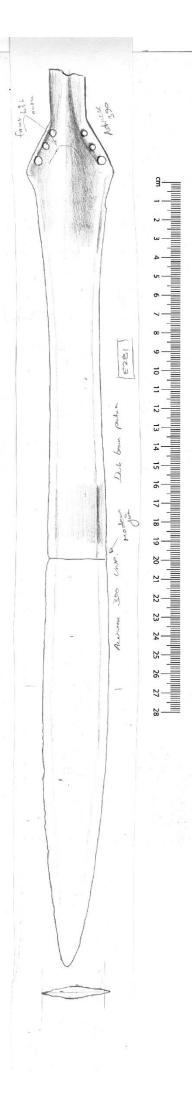




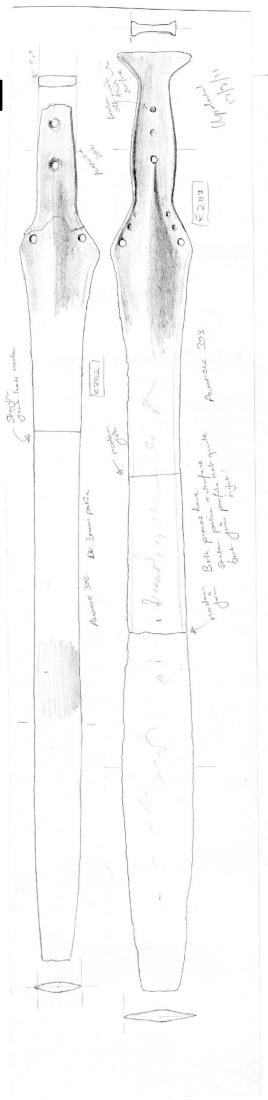


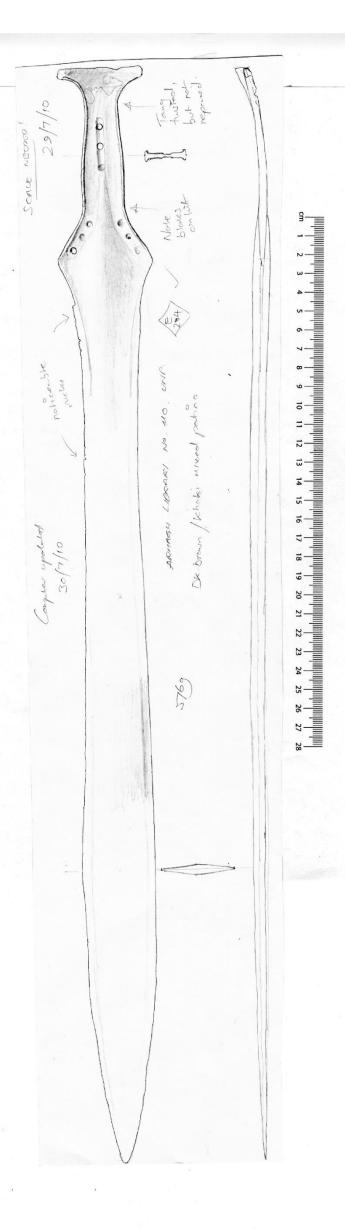


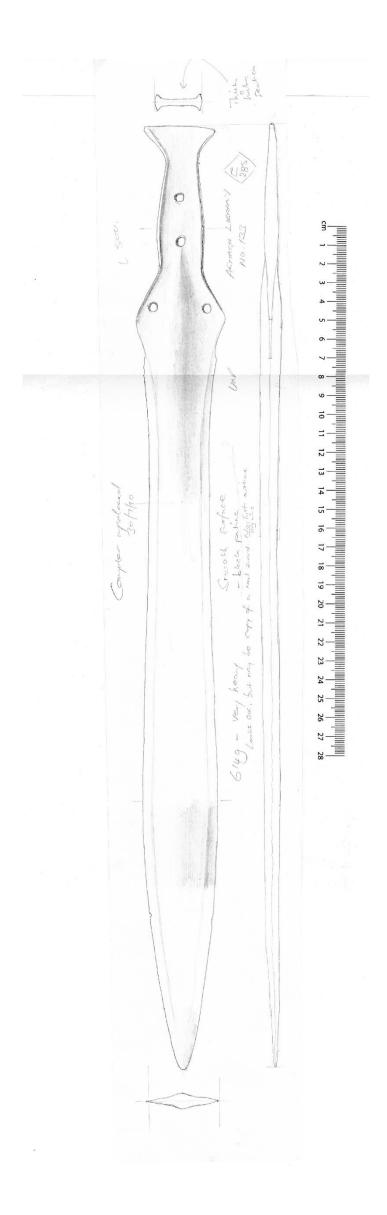


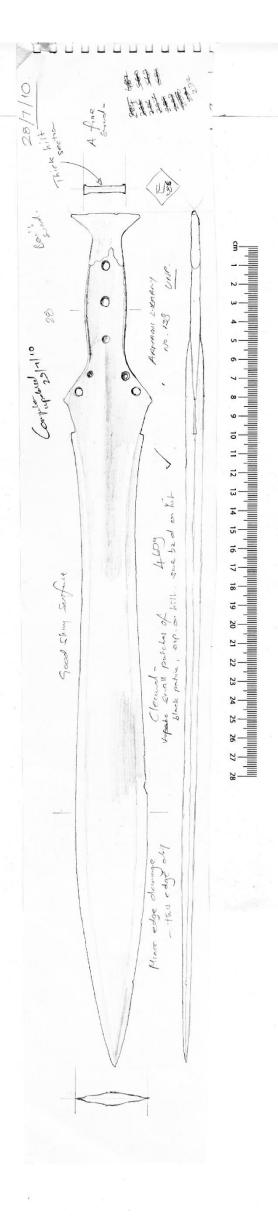


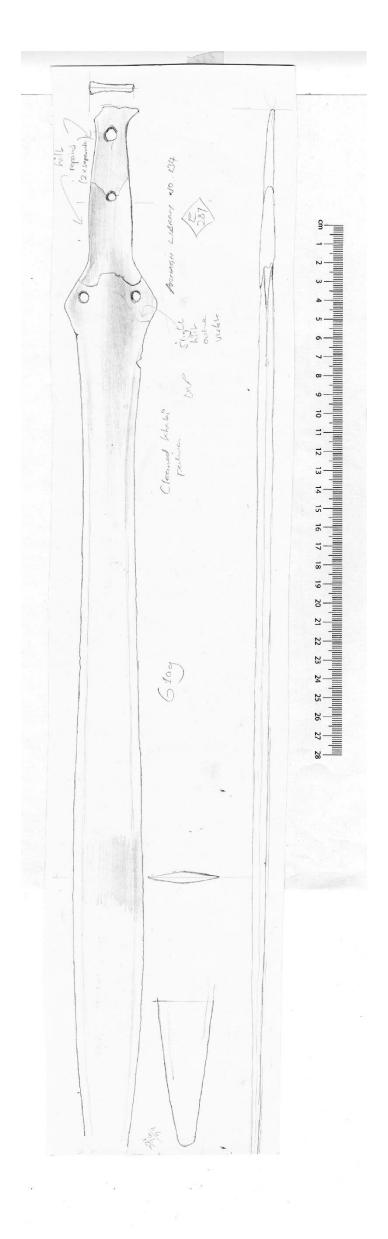
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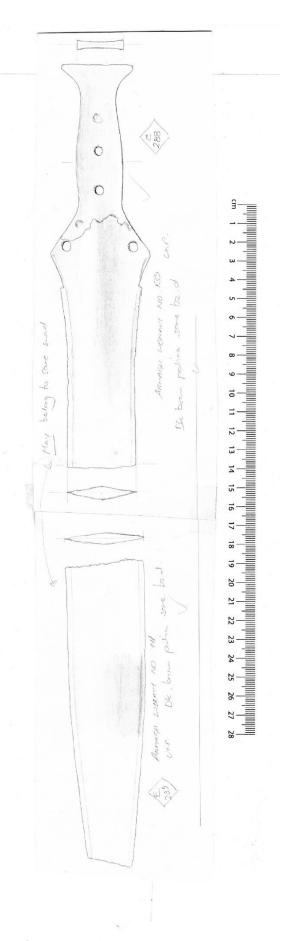


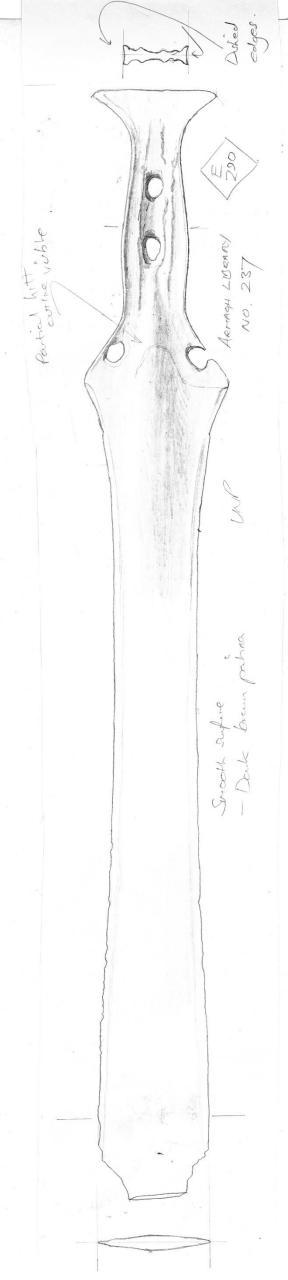


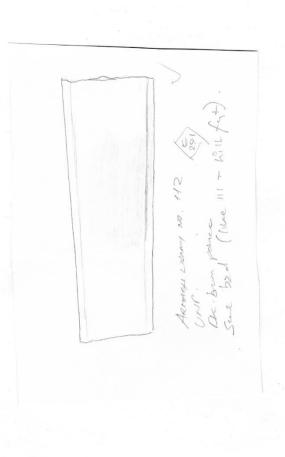


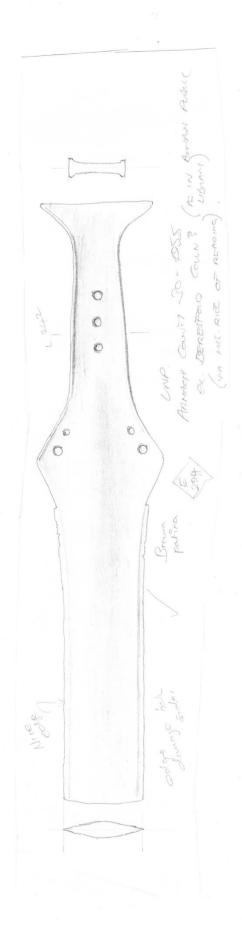


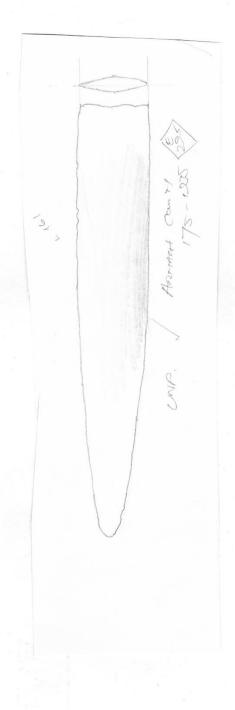


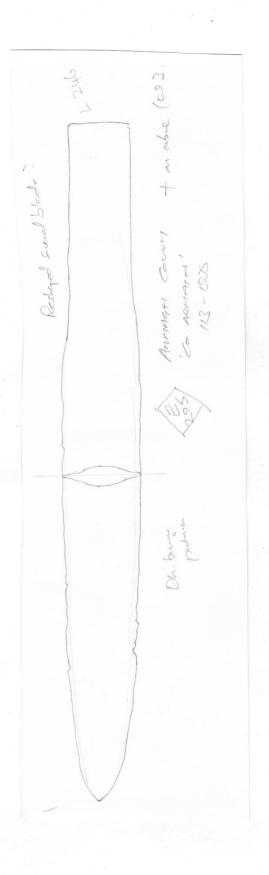


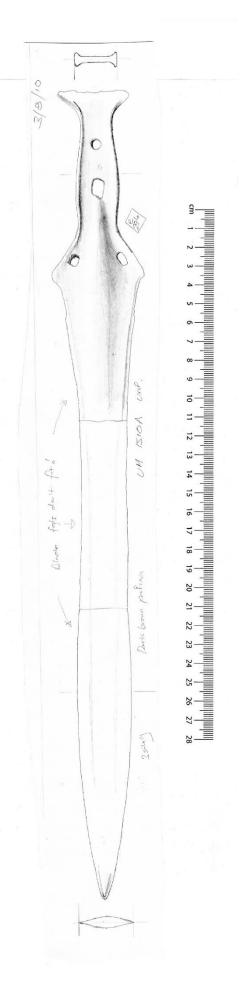


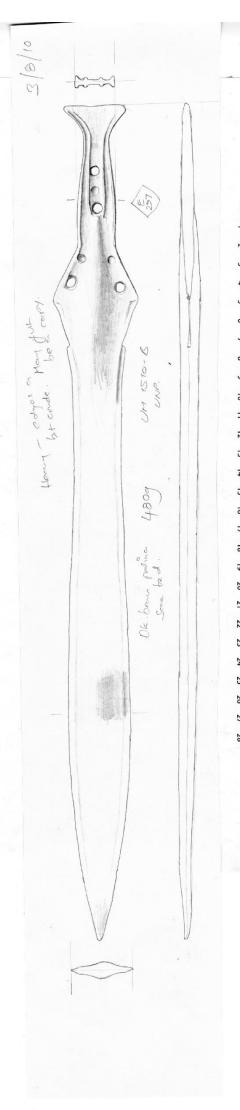


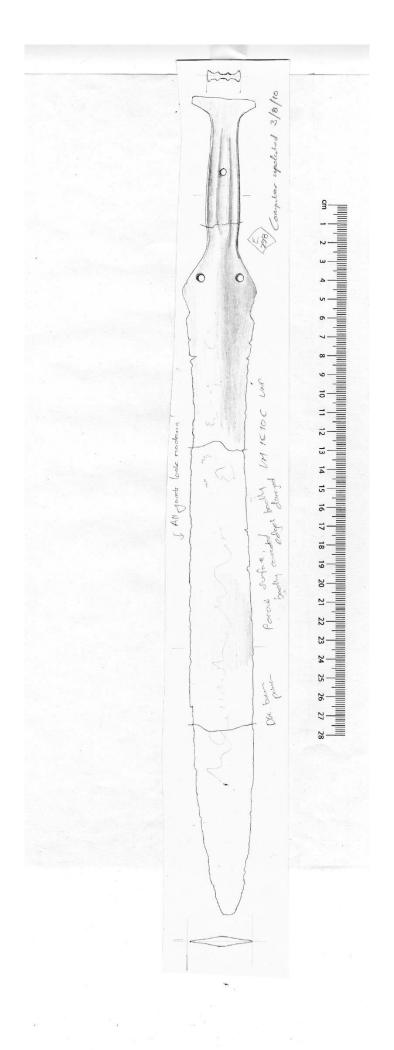


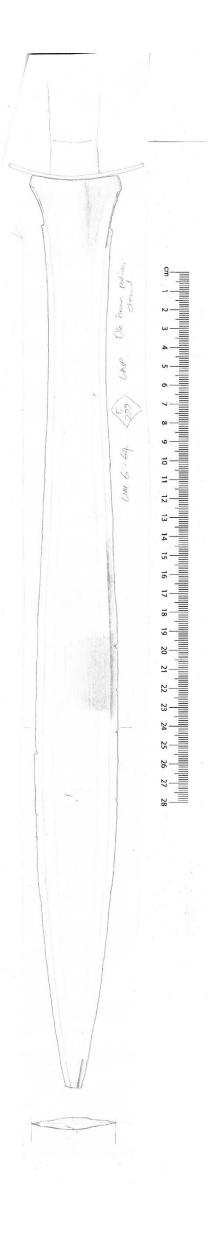


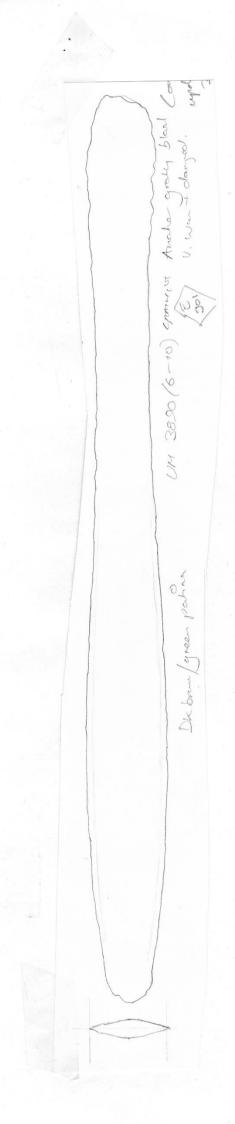


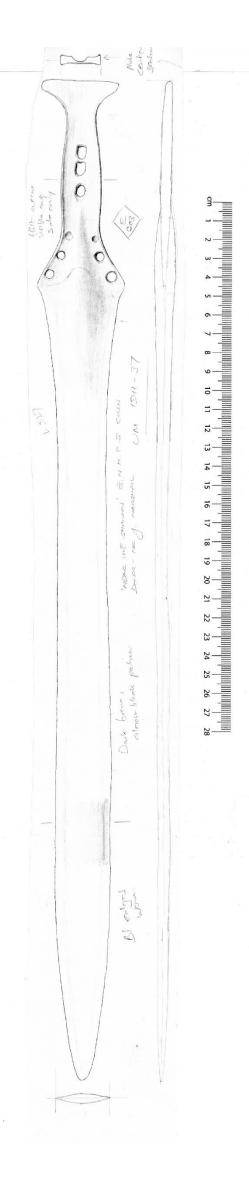


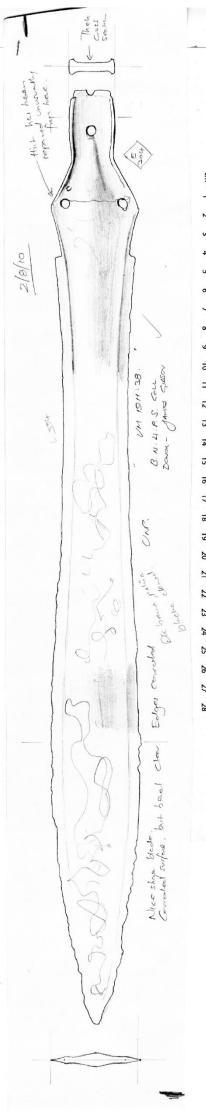


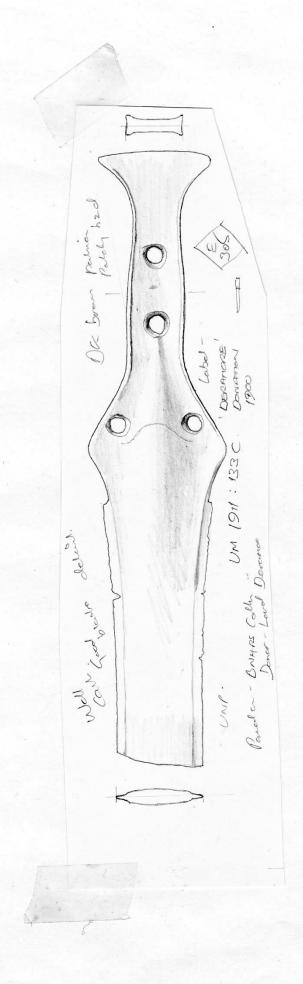


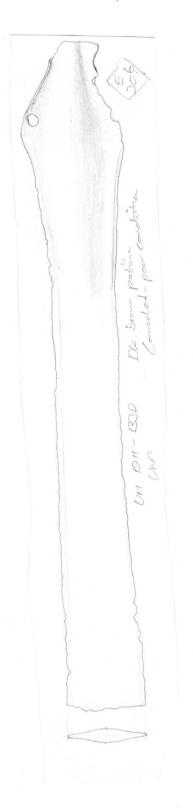


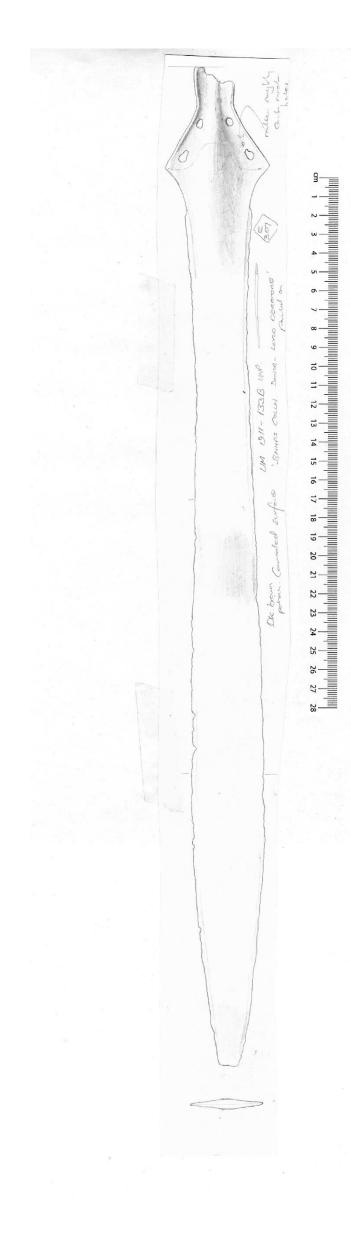




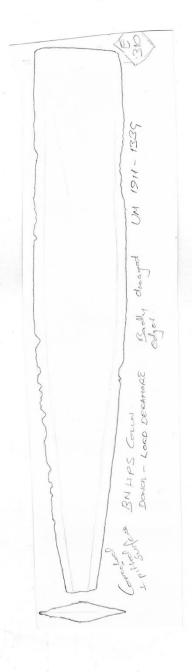


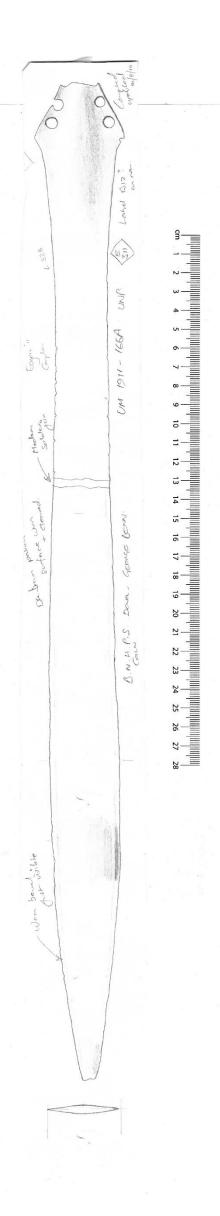


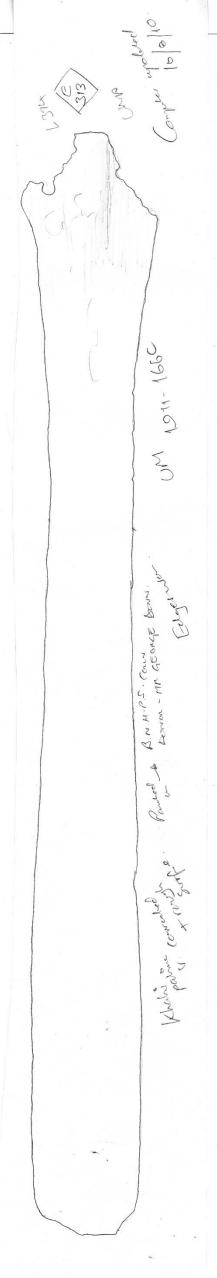


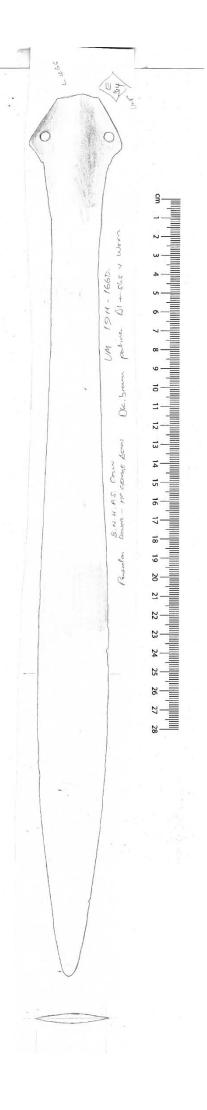


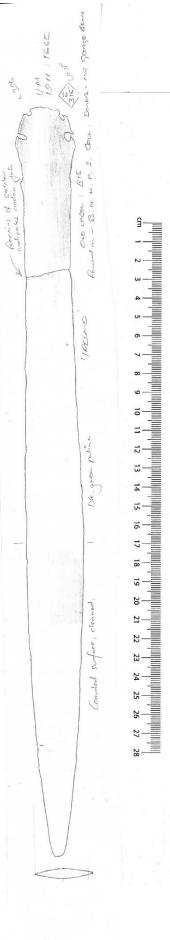


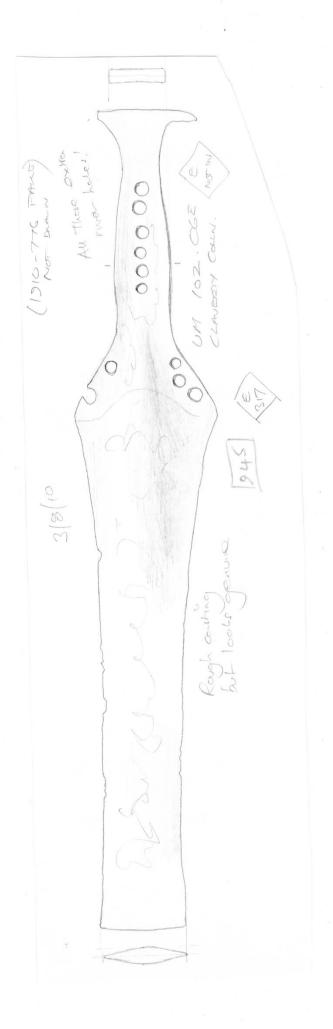


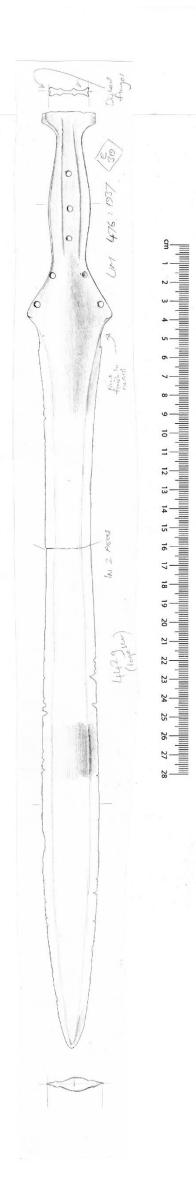


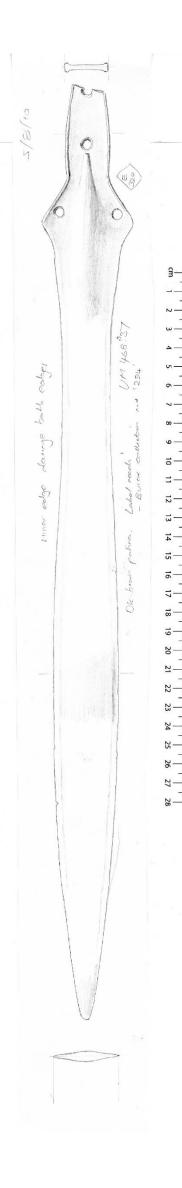


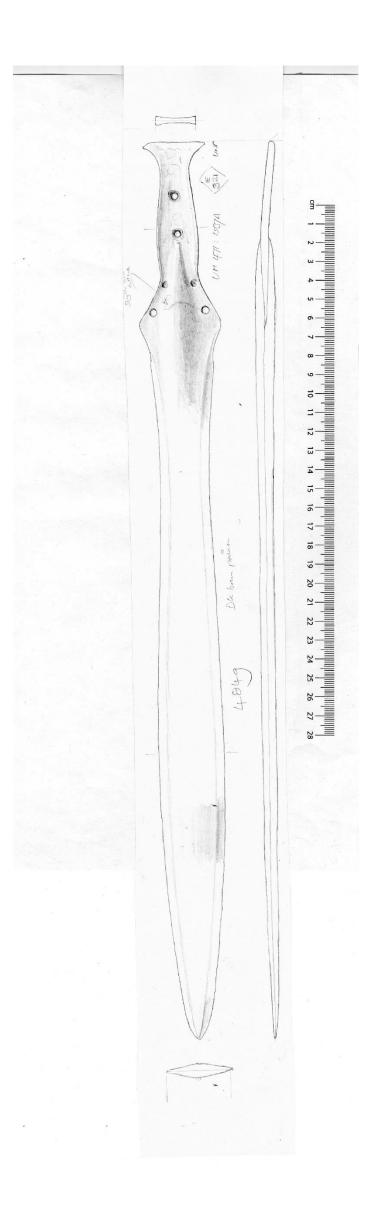


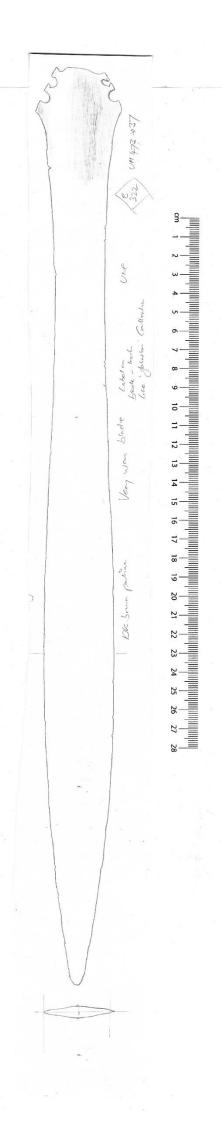


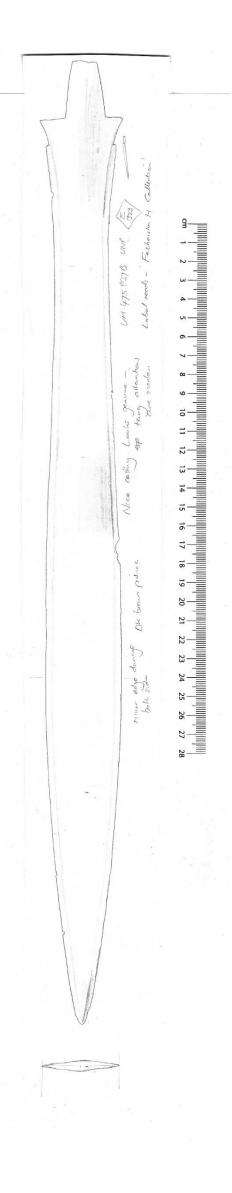


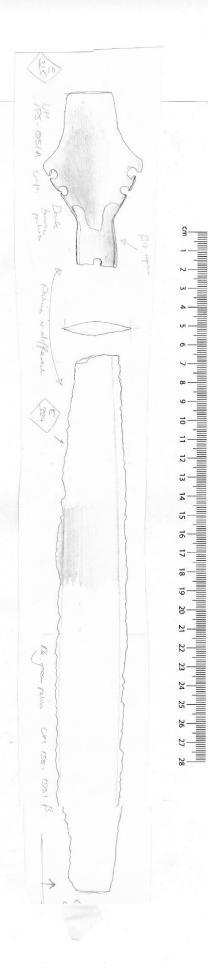


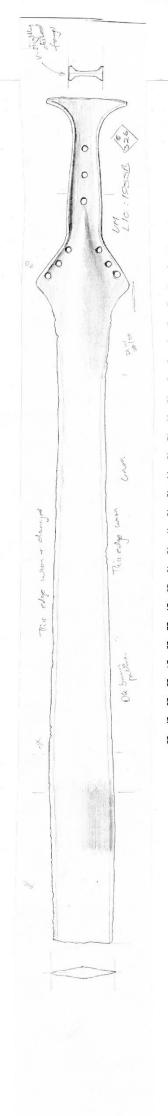


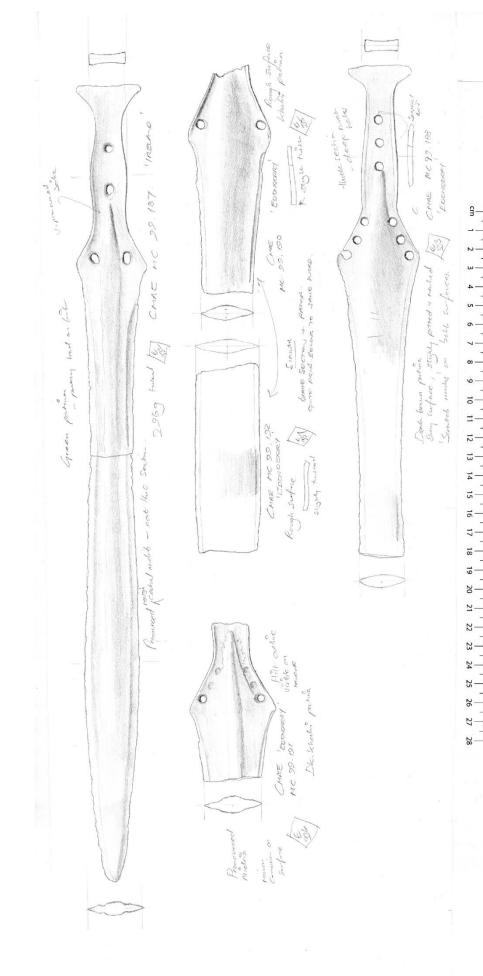




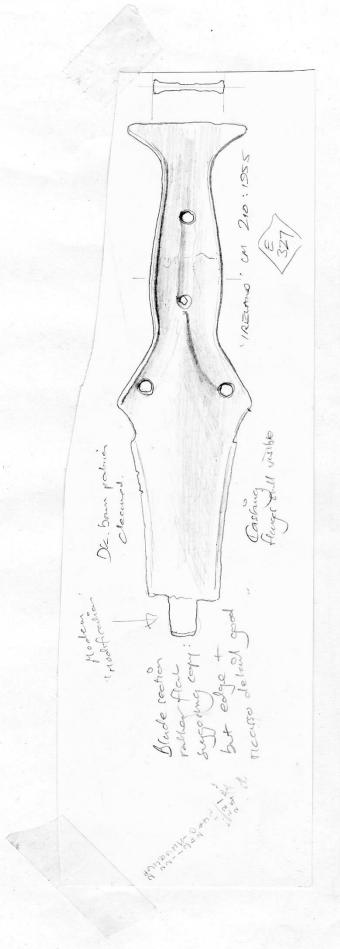


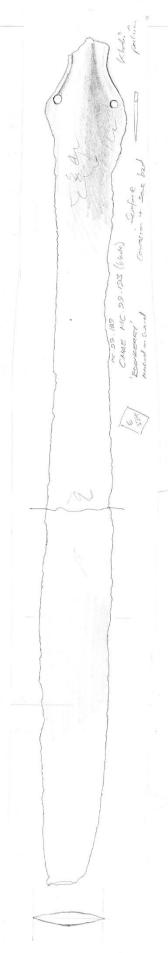


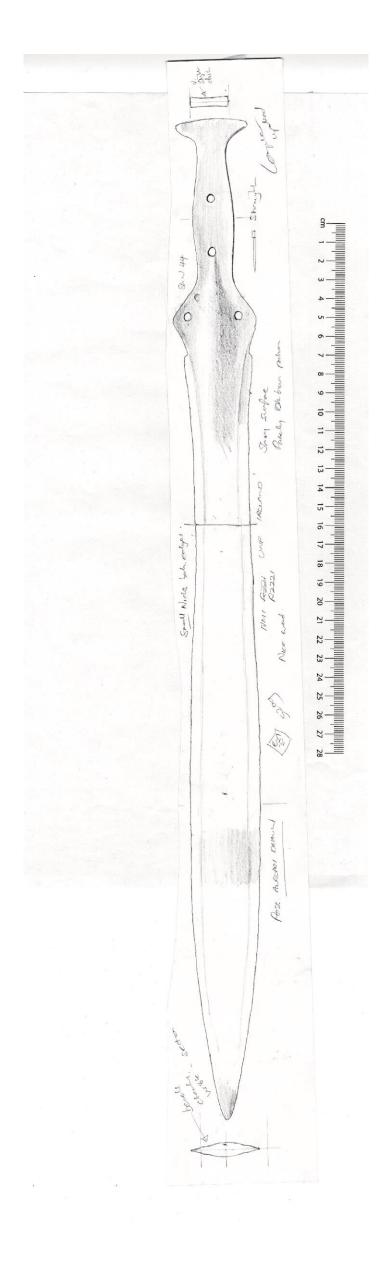


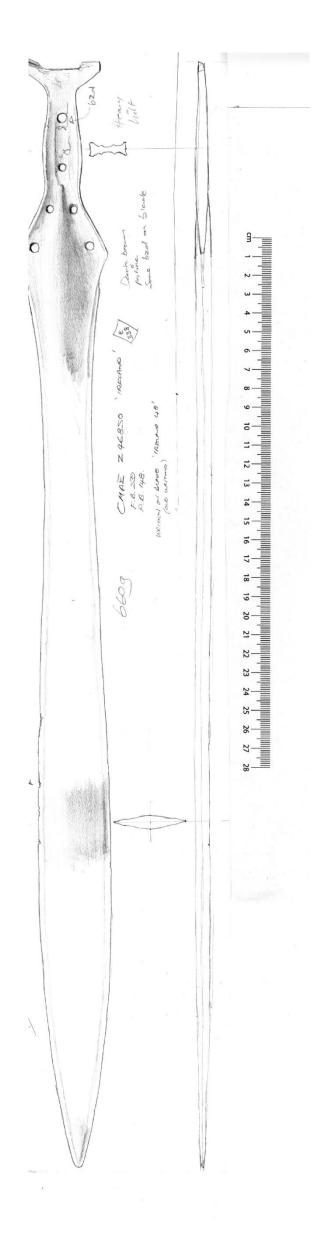


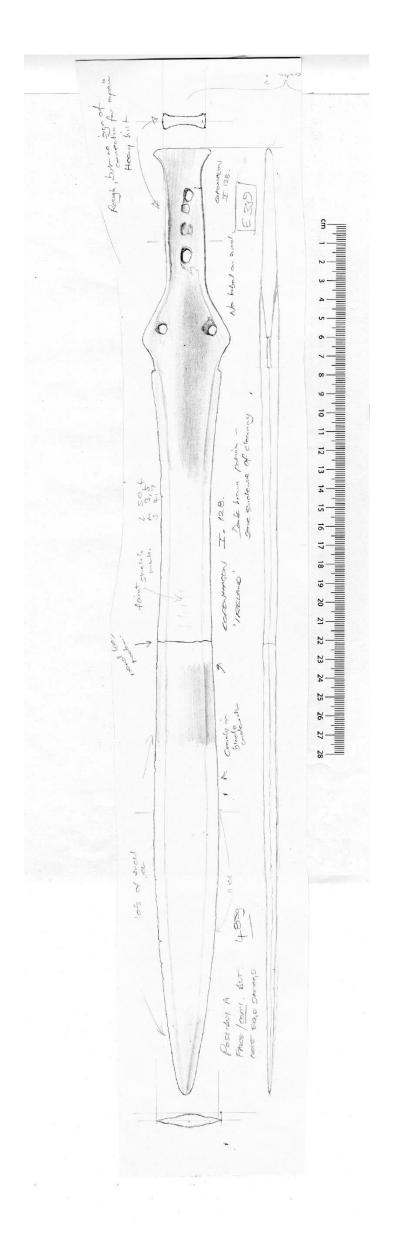
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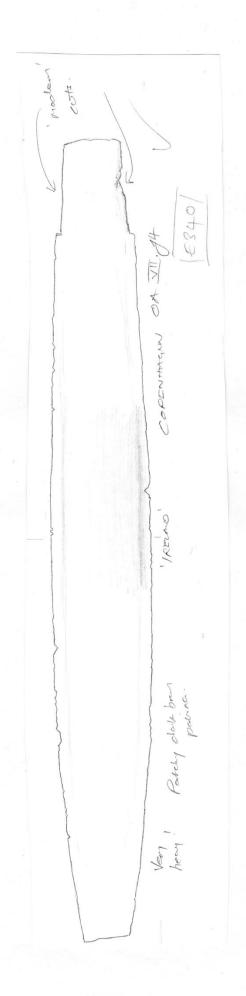


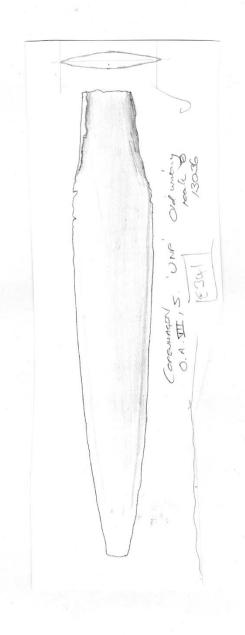


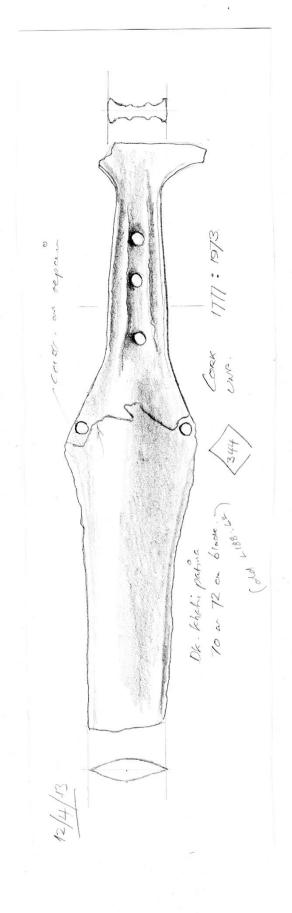


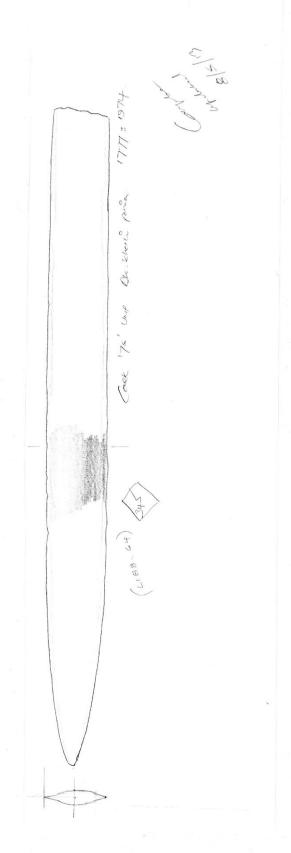


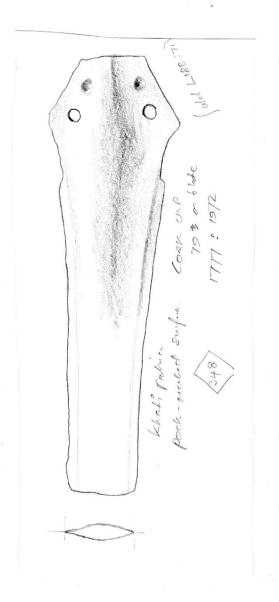


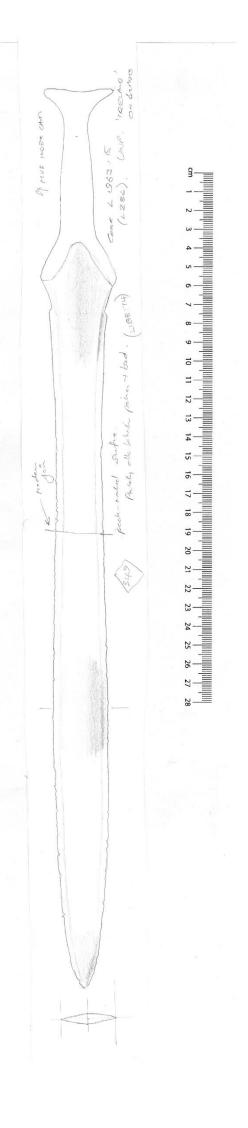


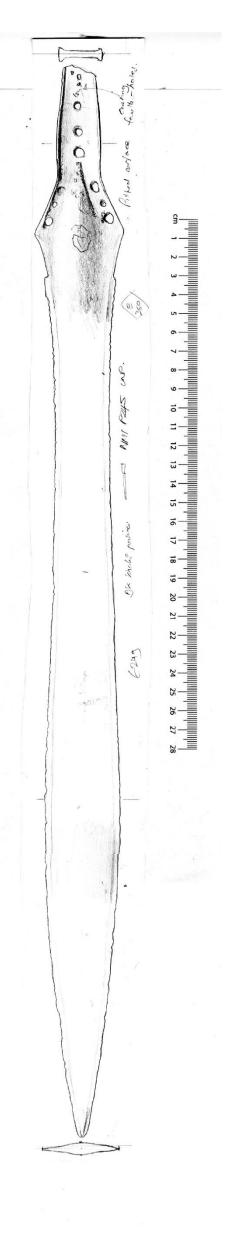


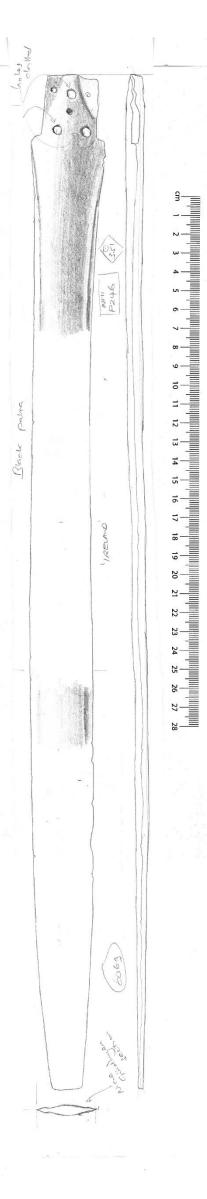




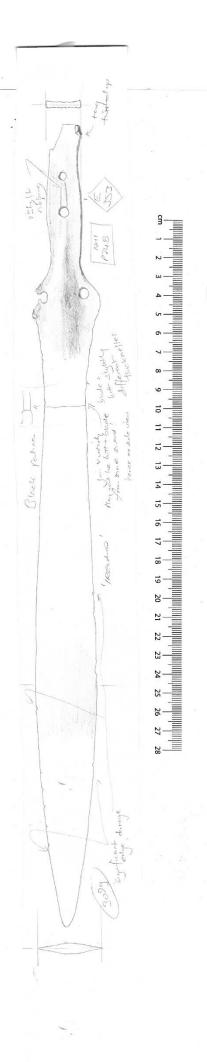


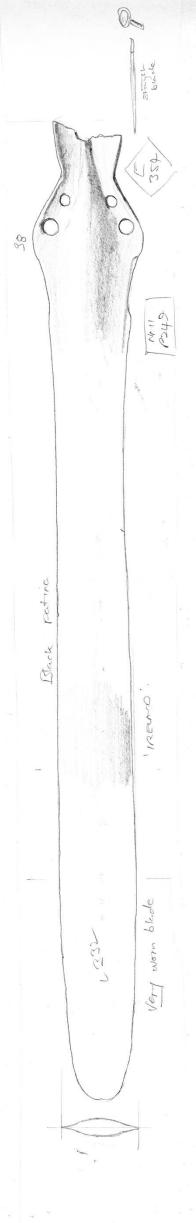


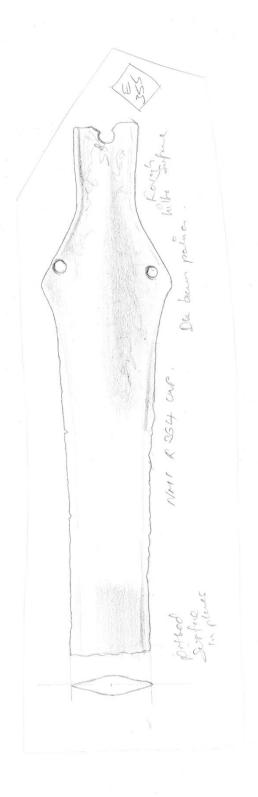


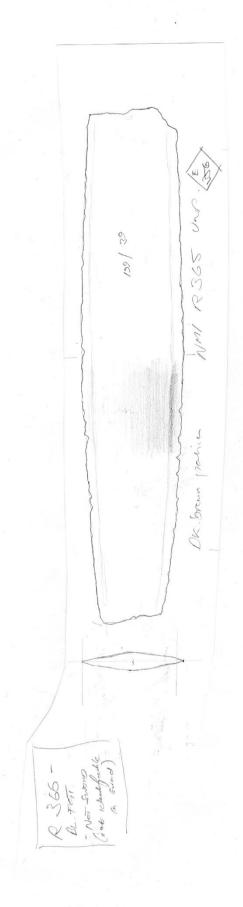


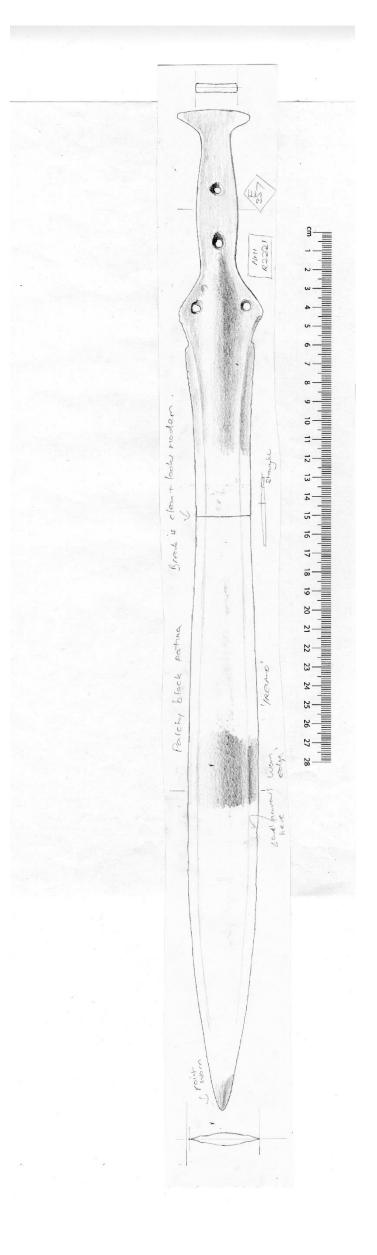




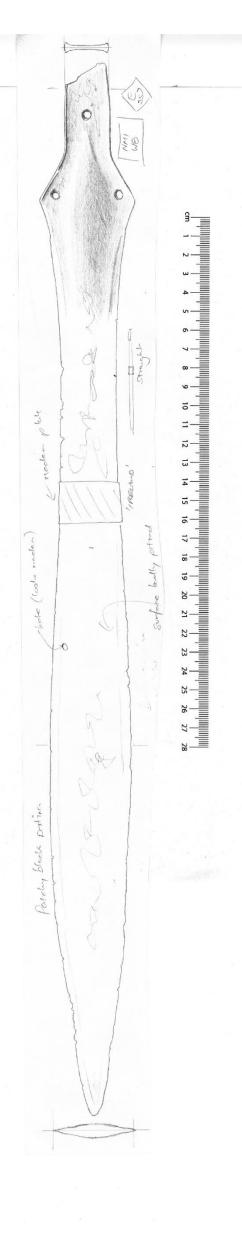


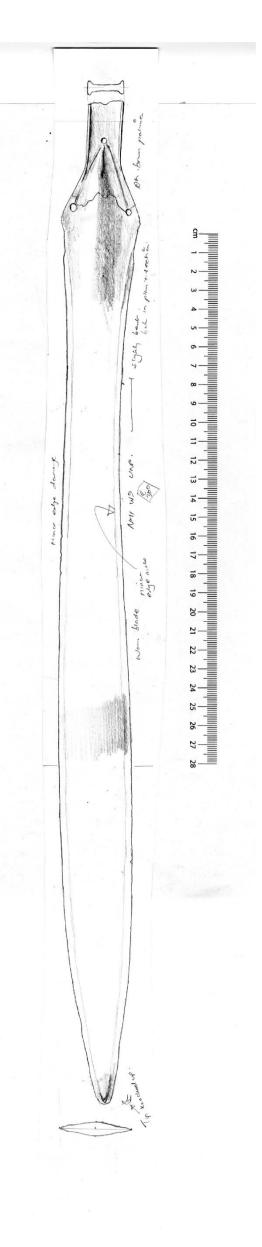




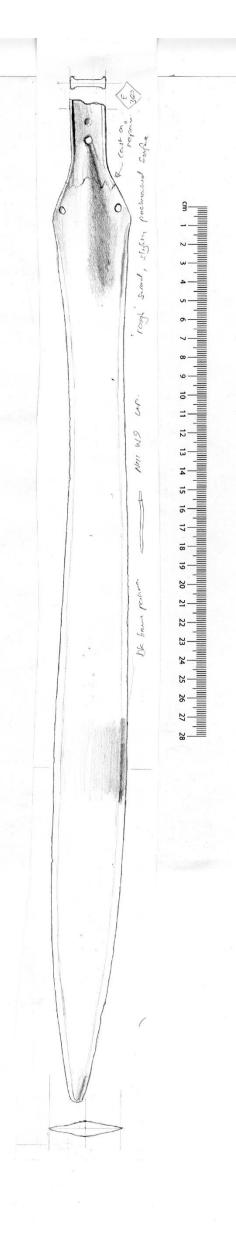


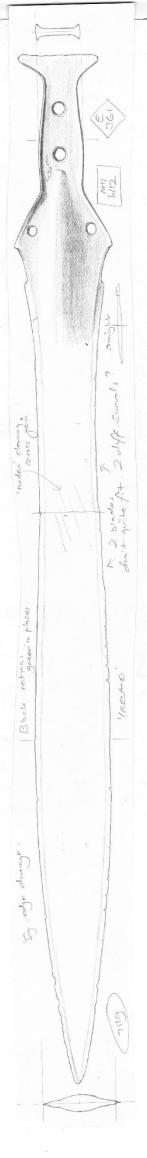
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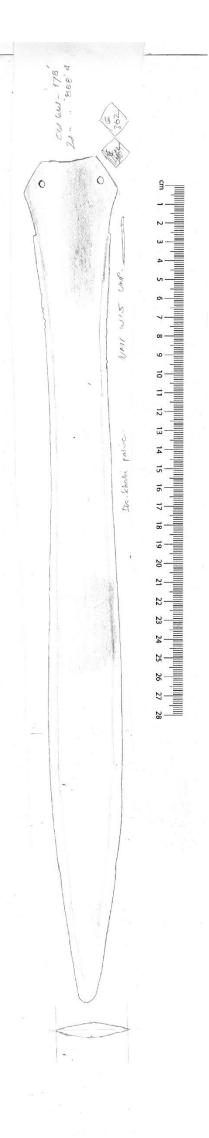


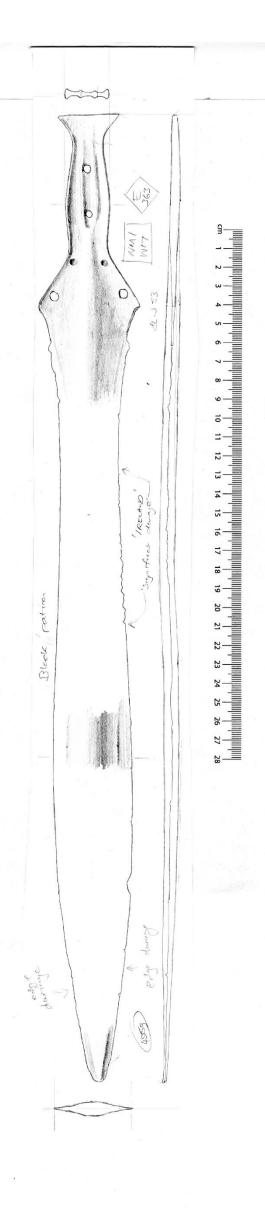


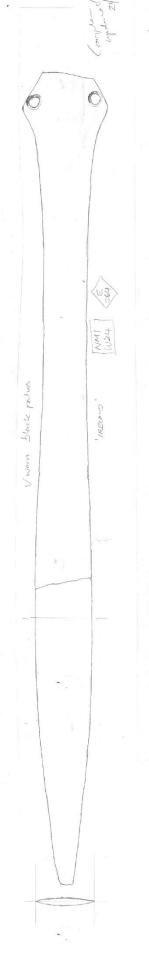
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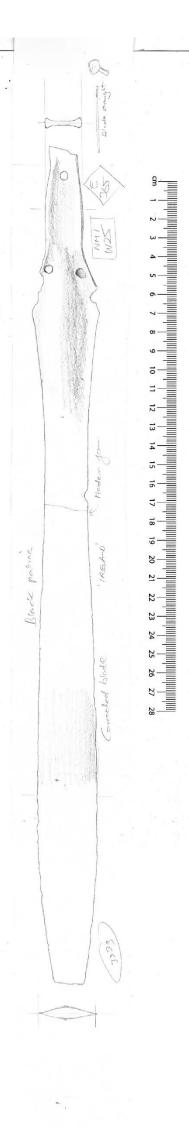


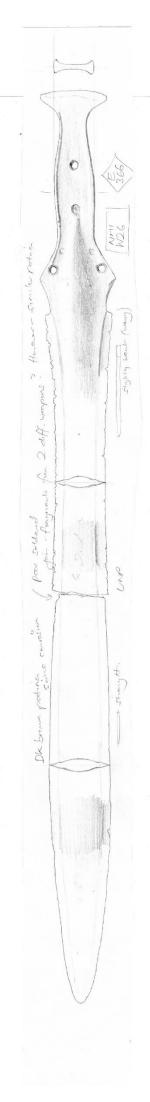


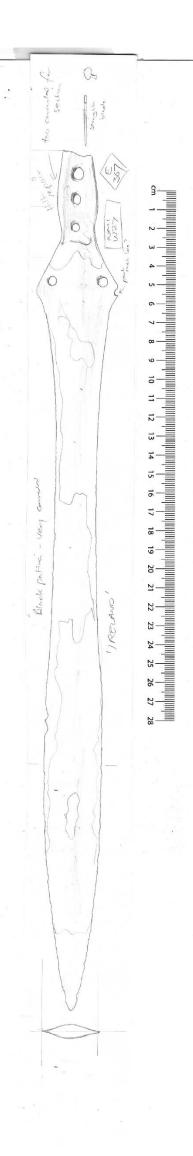


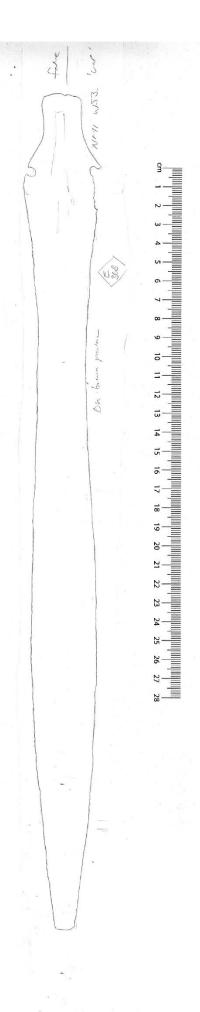


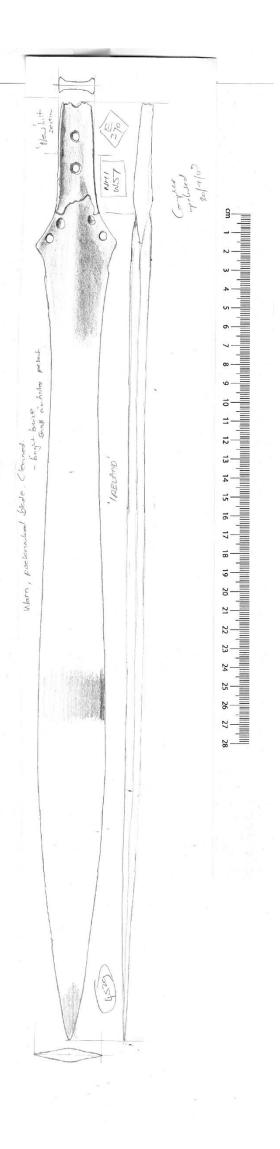
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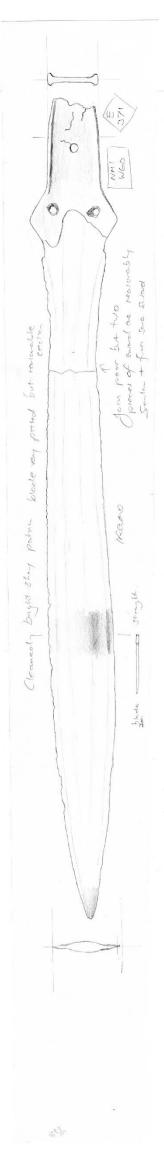


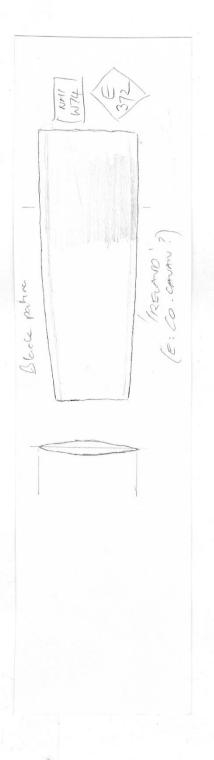


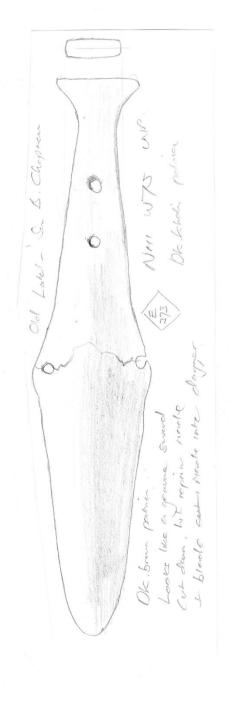


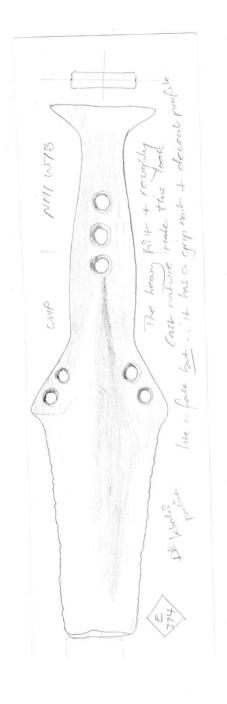




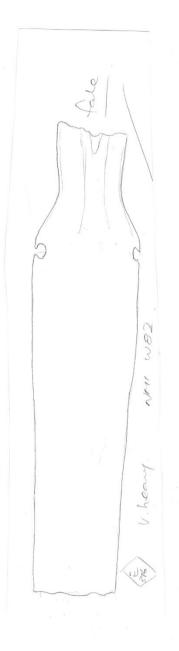


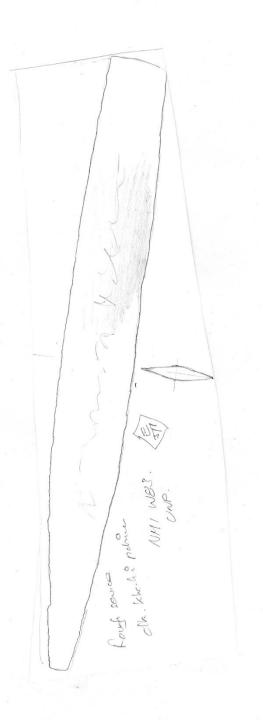


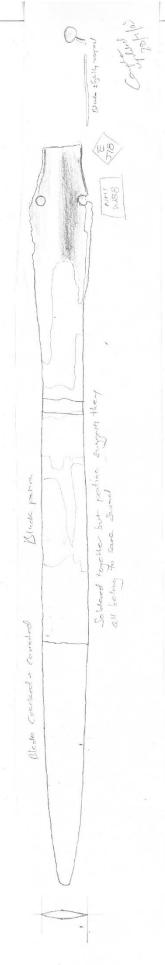


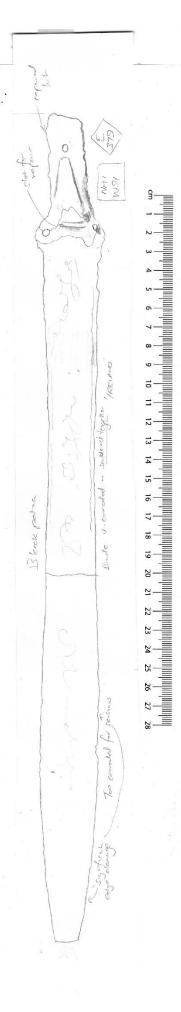


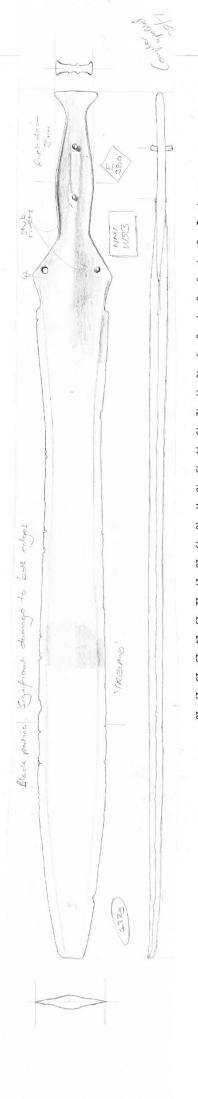


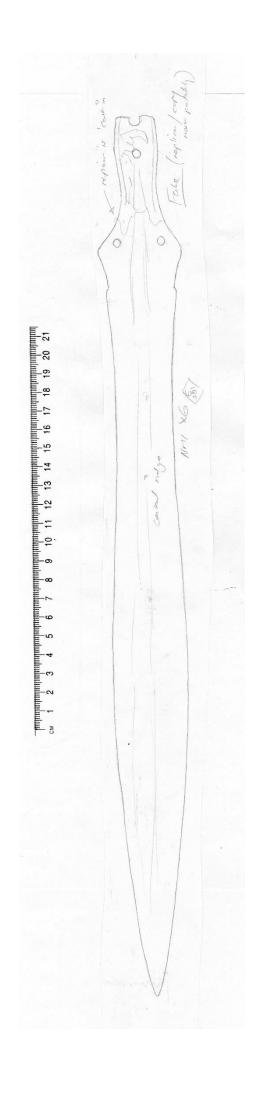


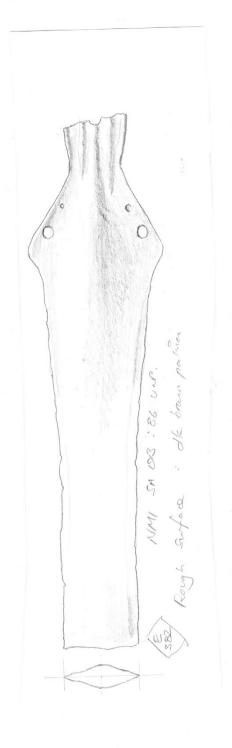


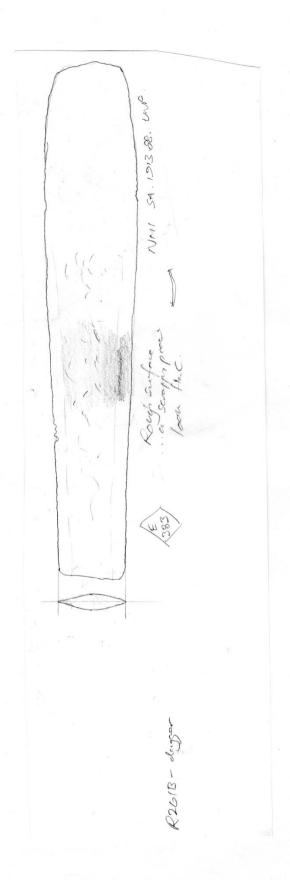






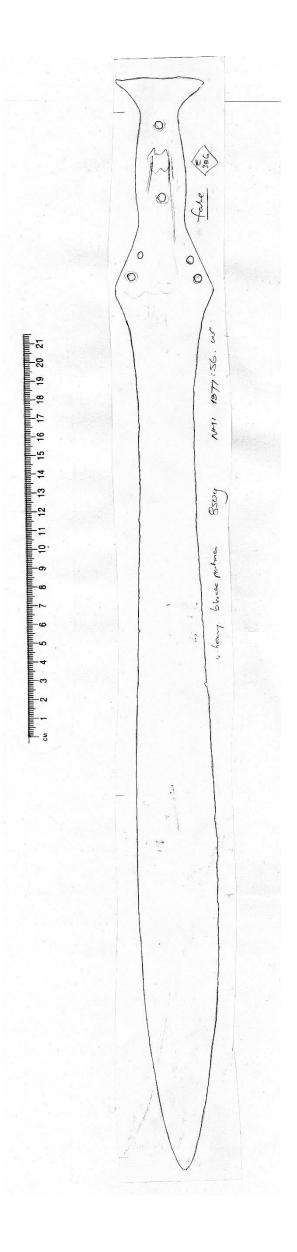


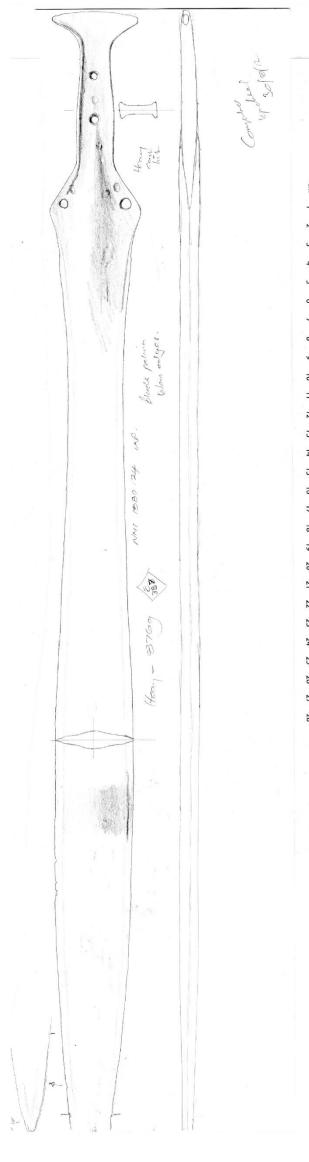


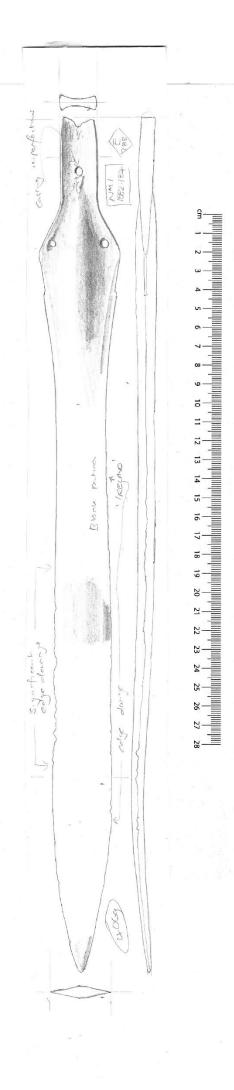


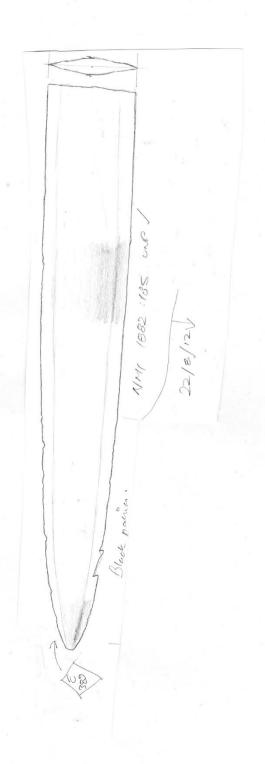




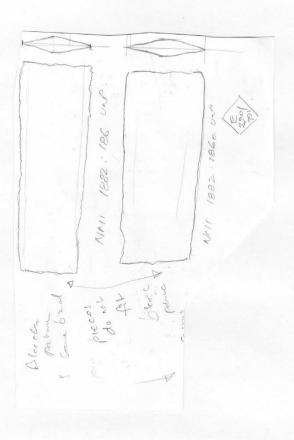


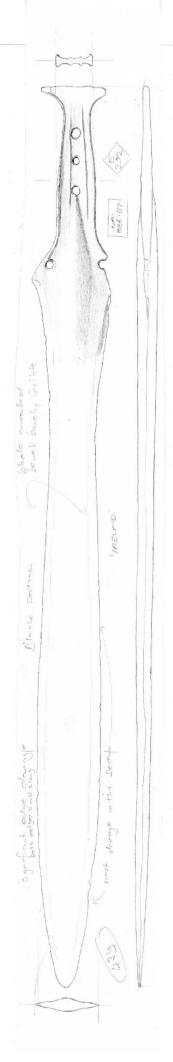




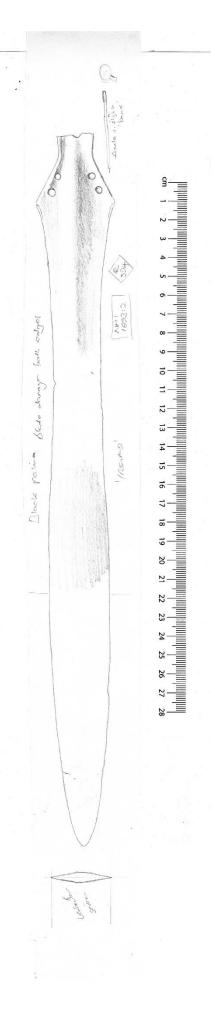


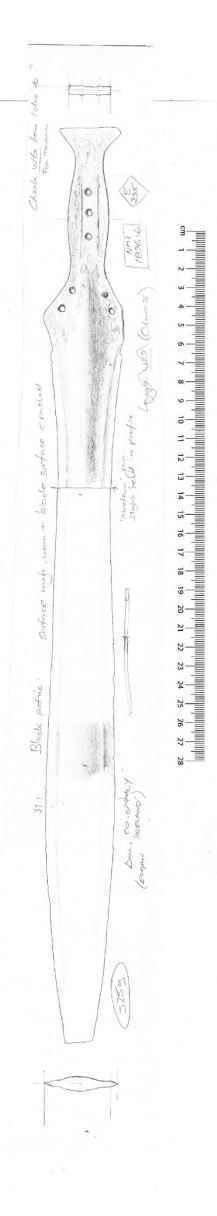
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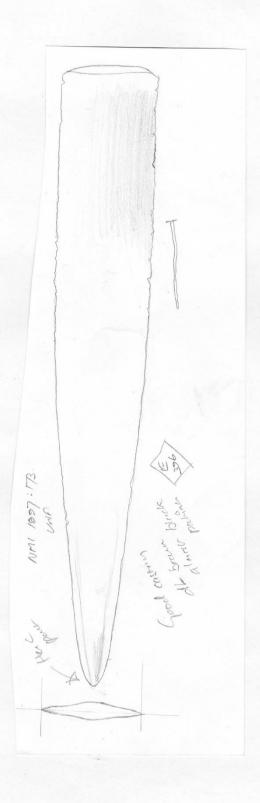


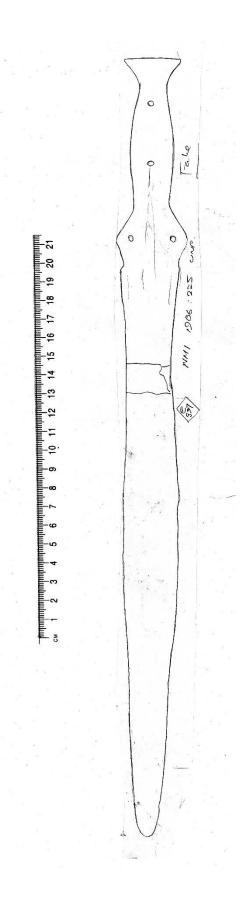




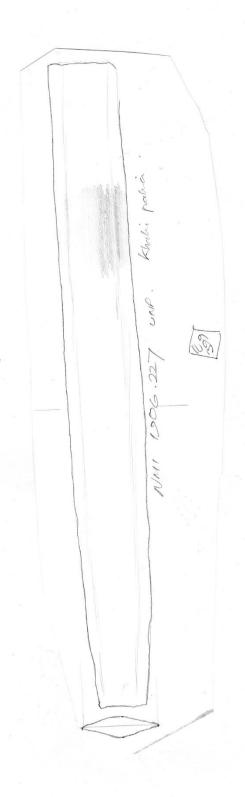


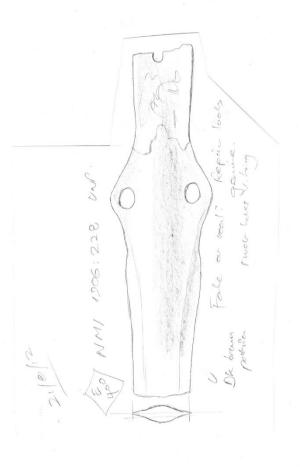


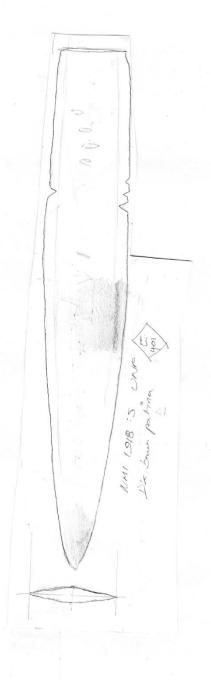


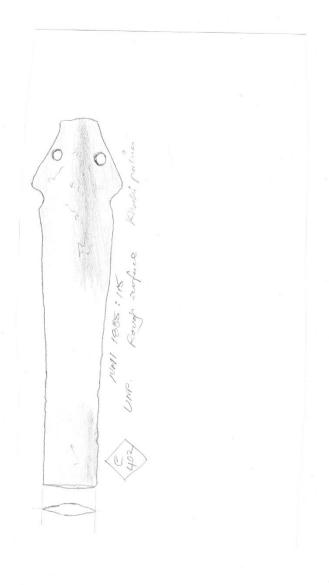


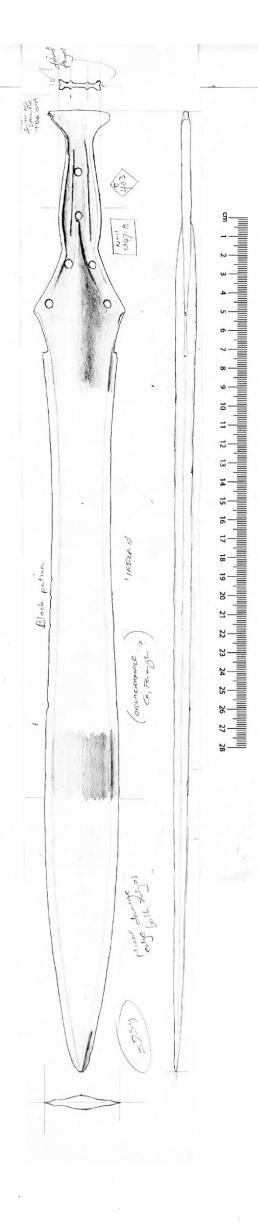


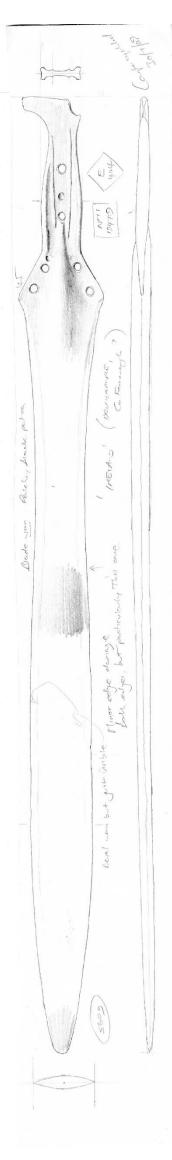


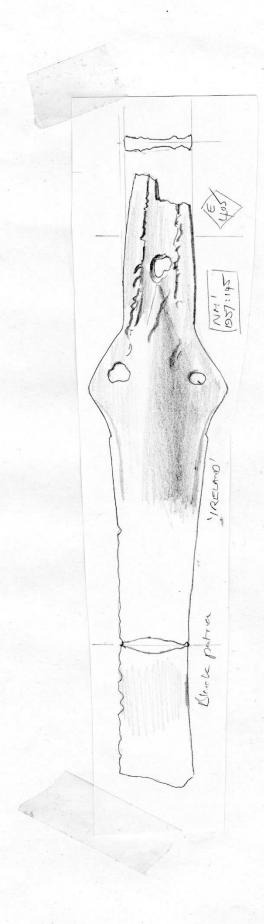


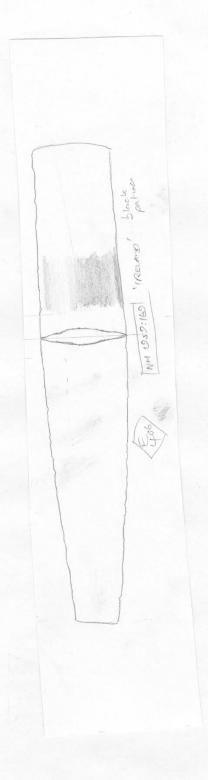


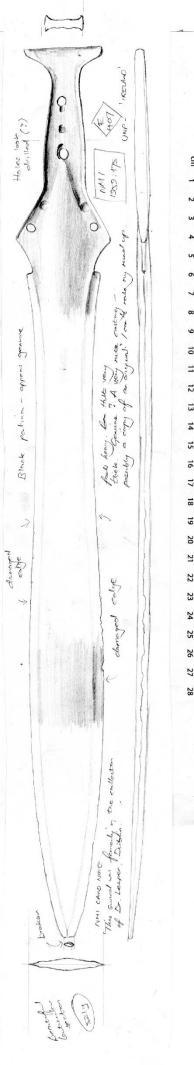


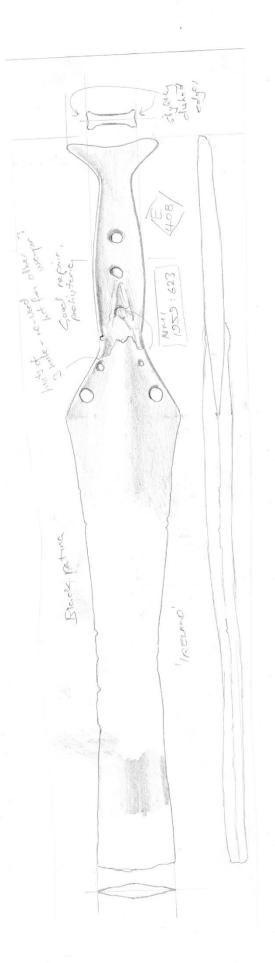


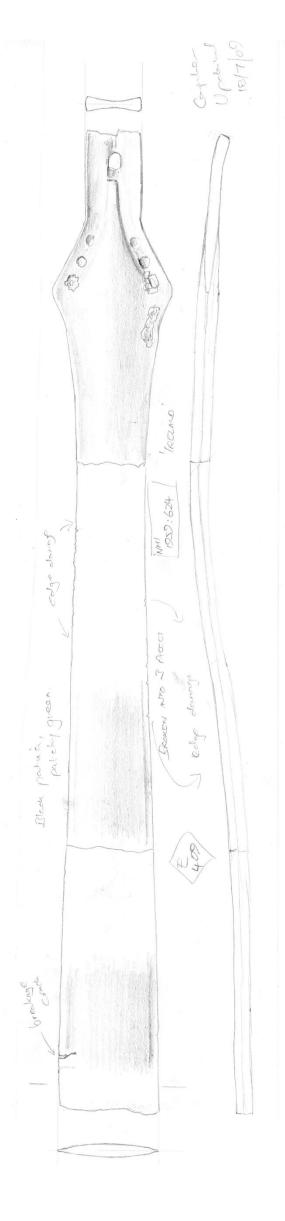


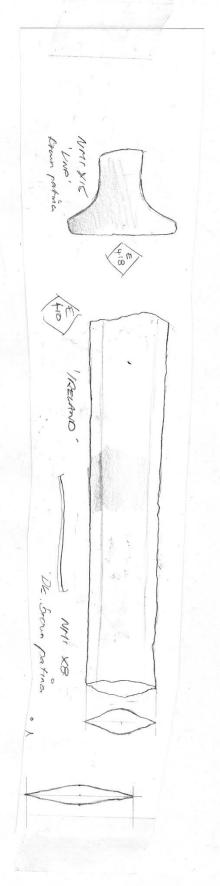


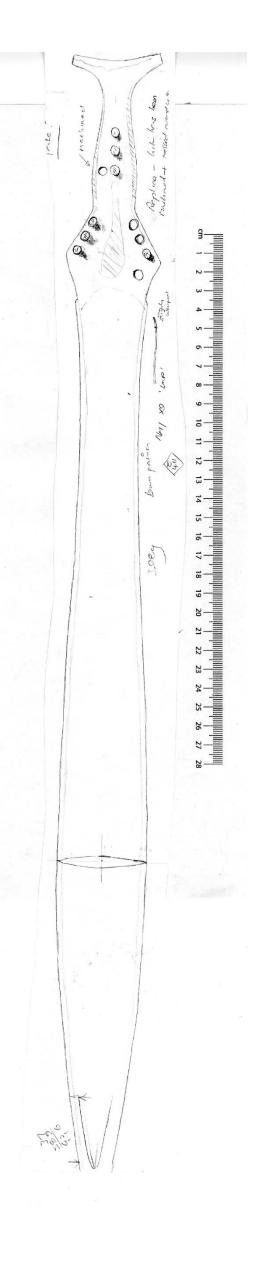


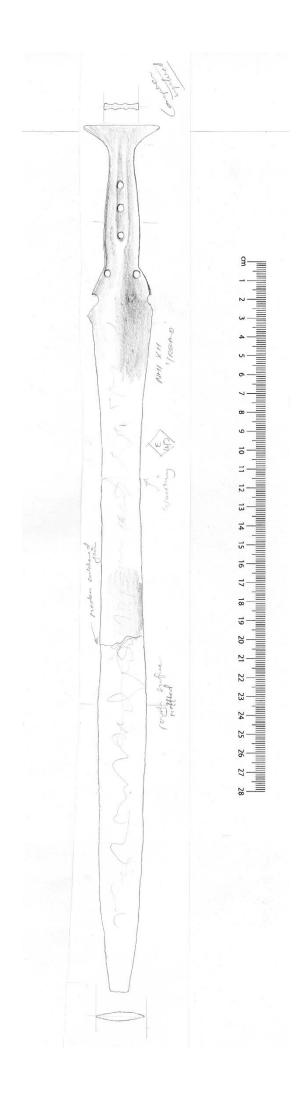


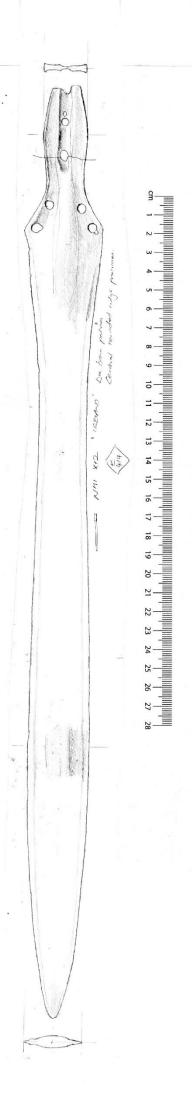


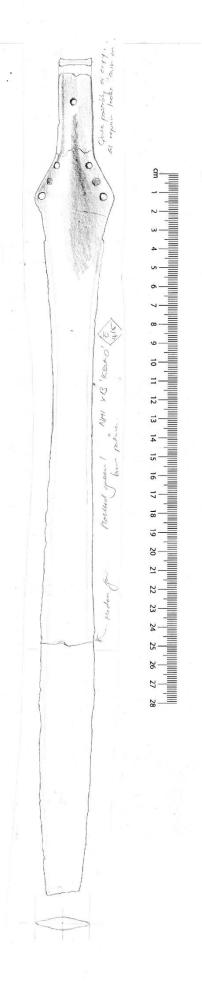


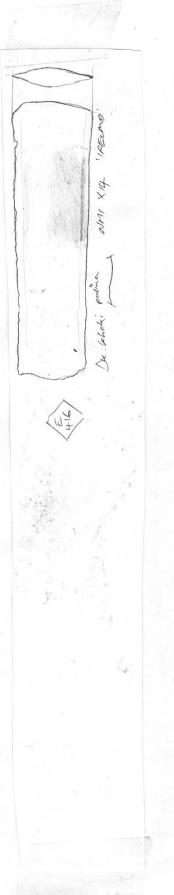


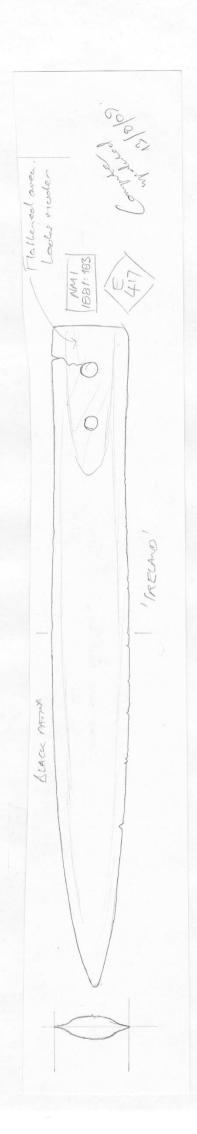


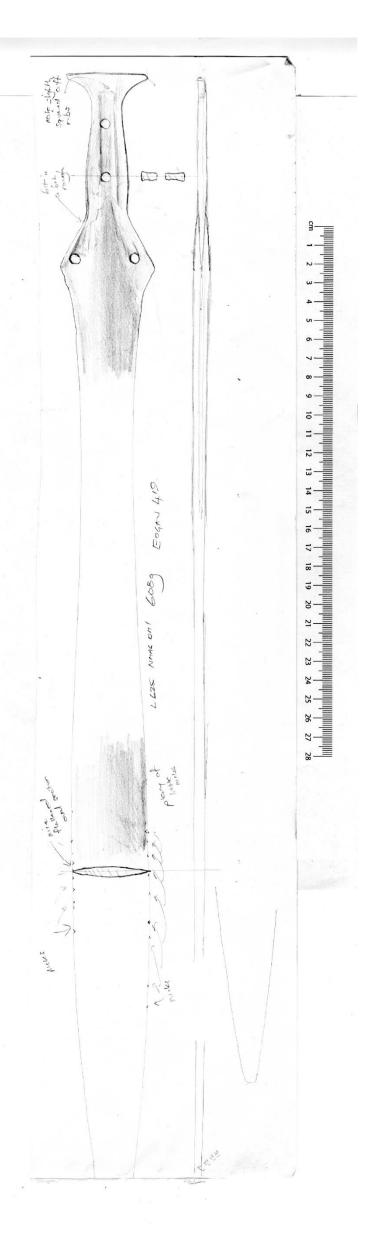




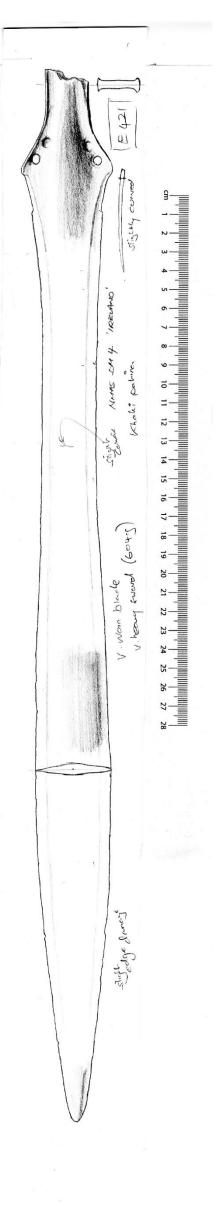




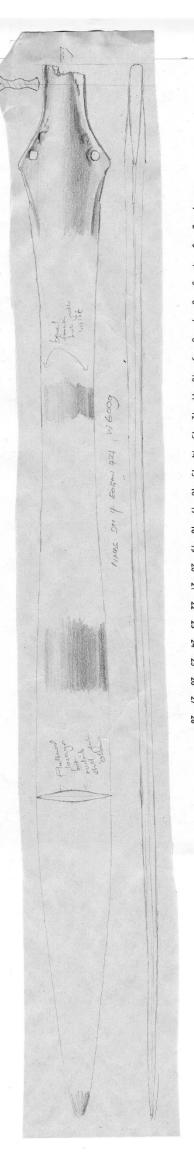


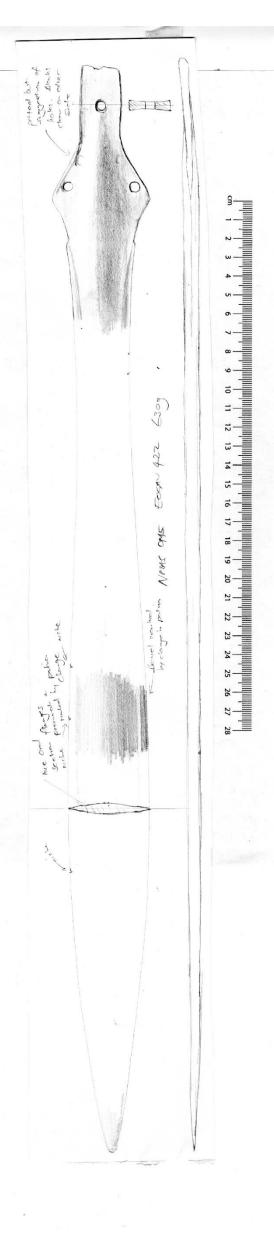




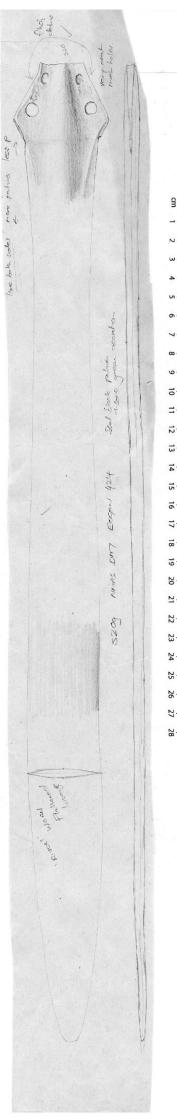


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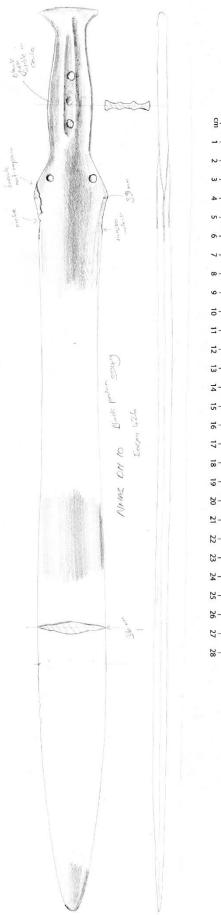


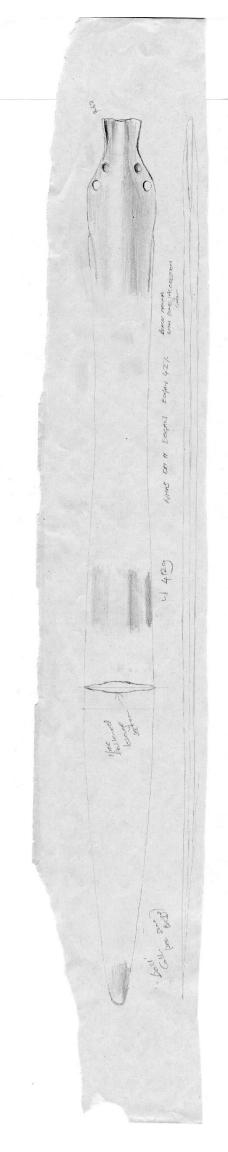


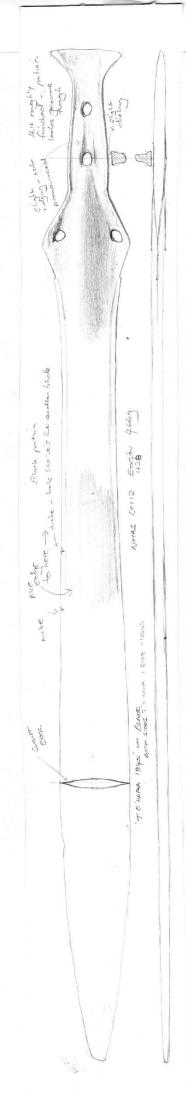




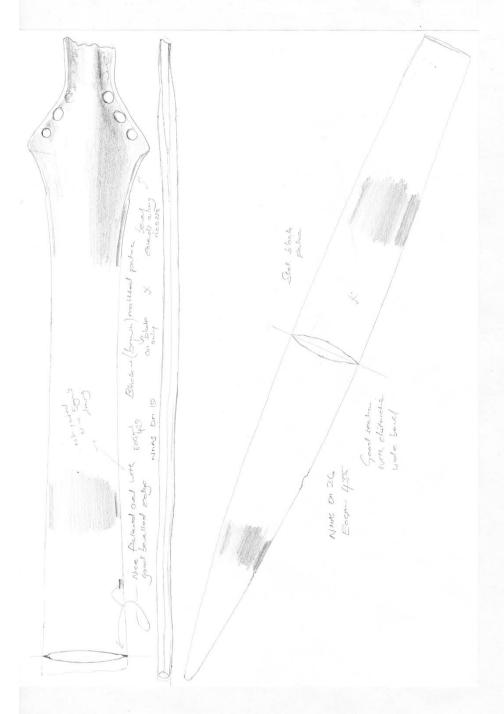


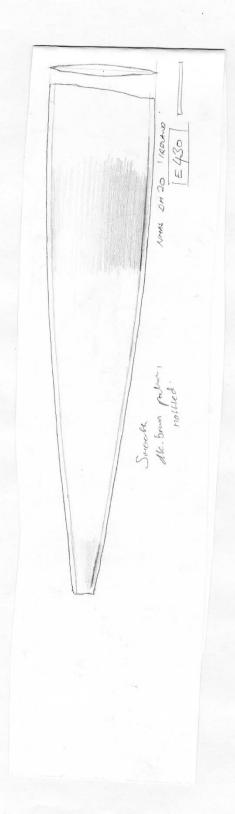


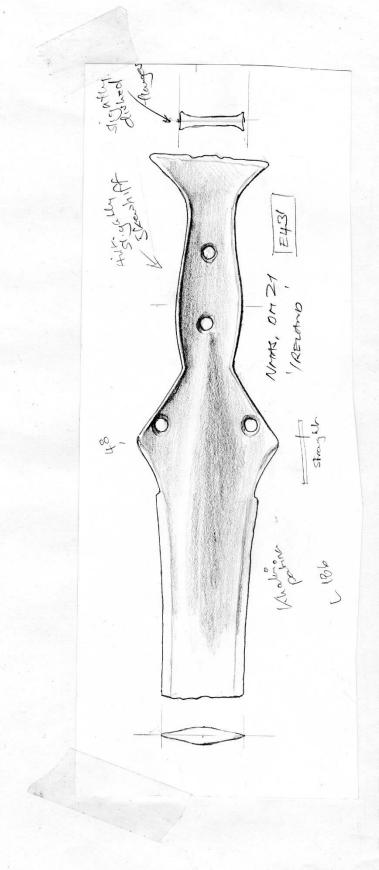


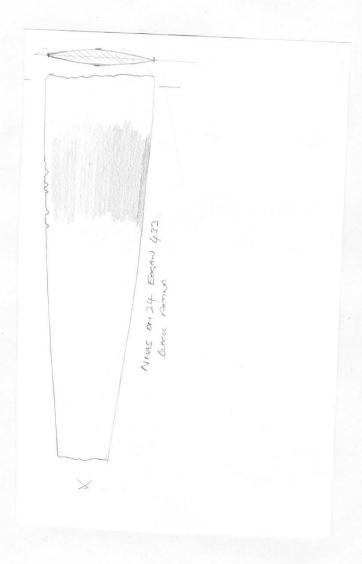


429 and 435



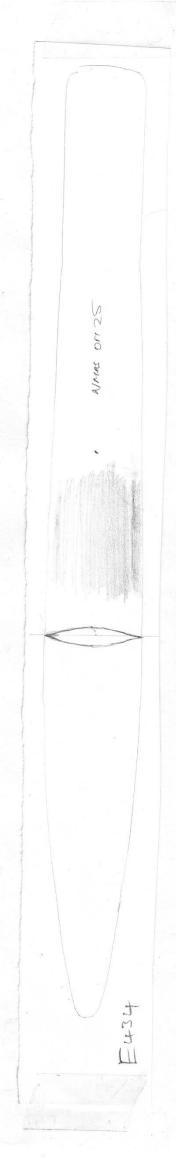


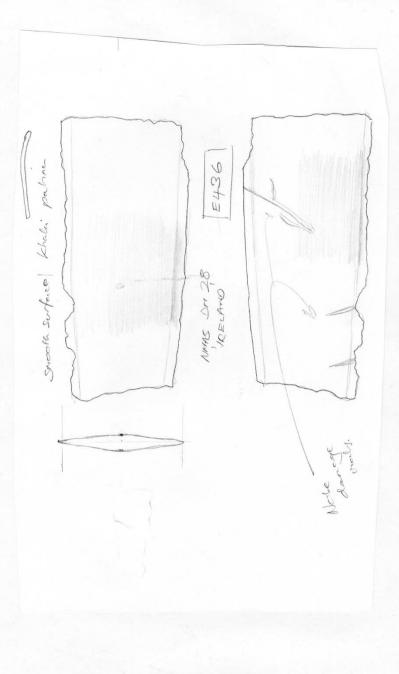


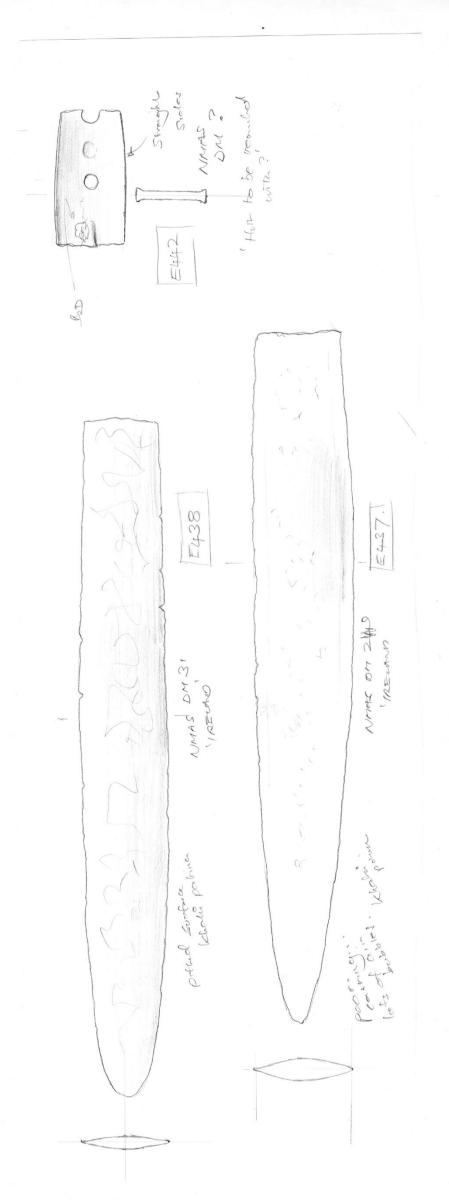


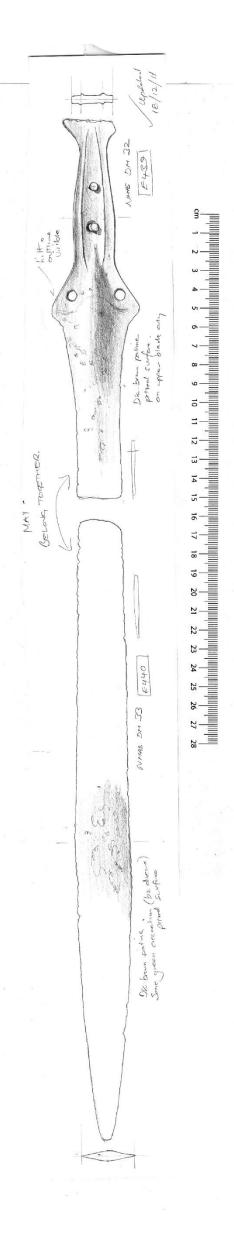


434 (2)



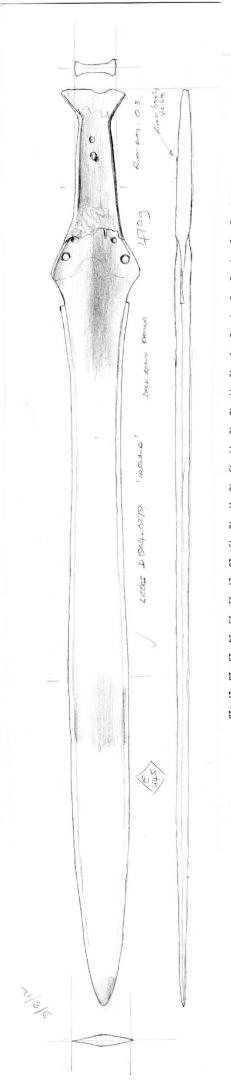


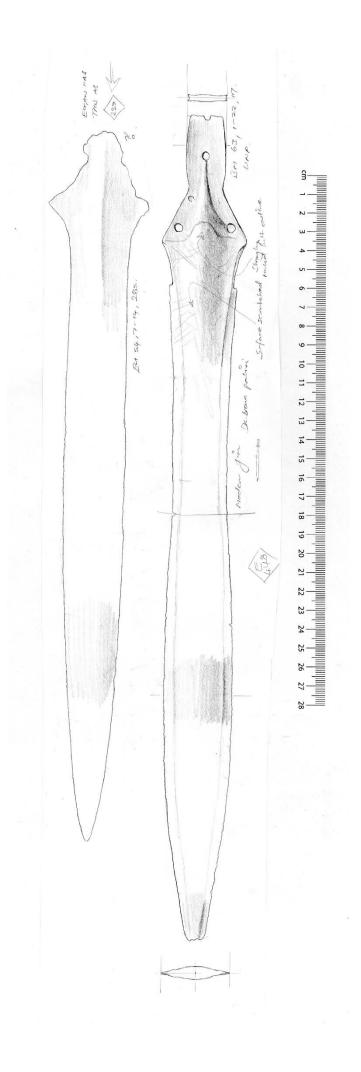


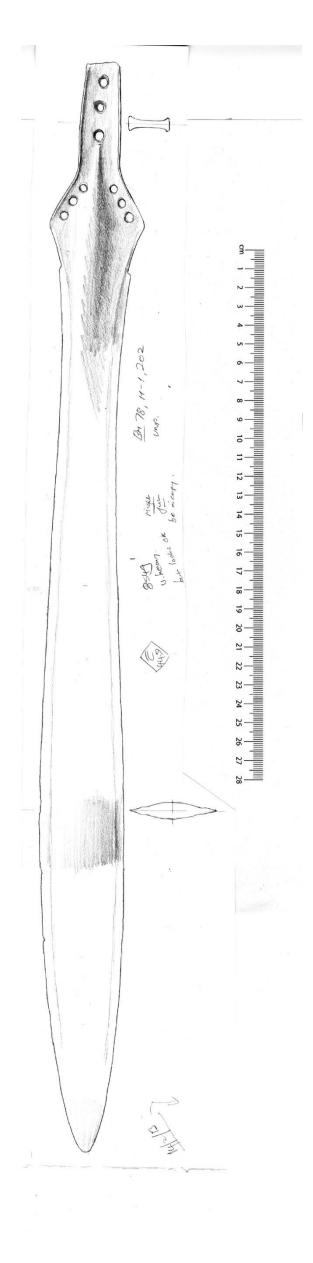


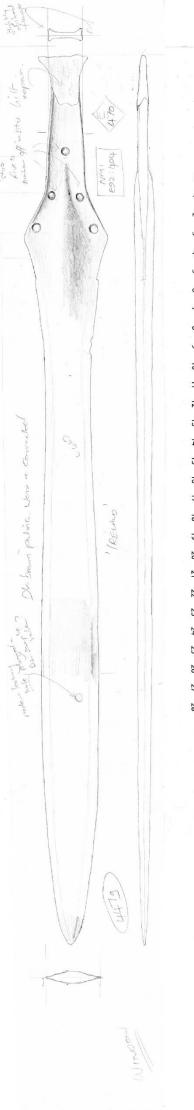


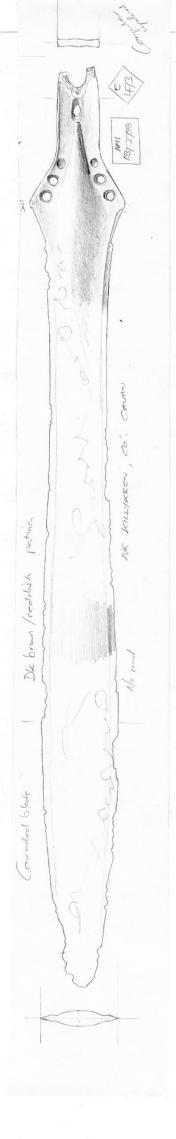


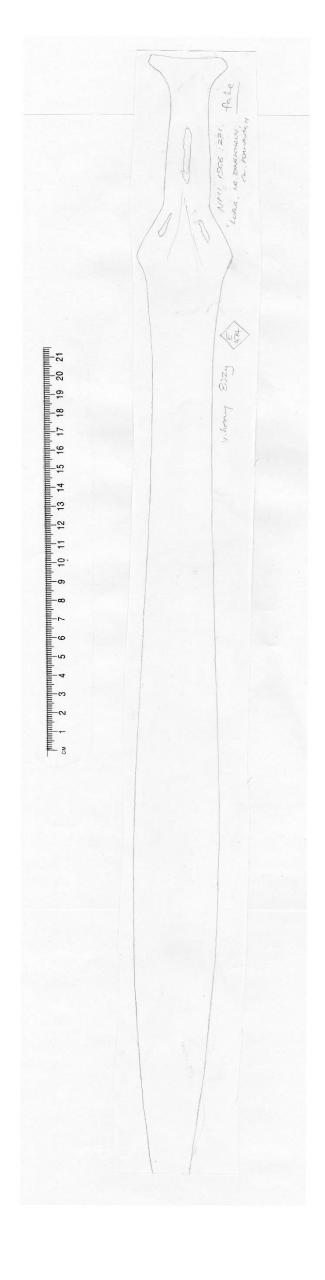


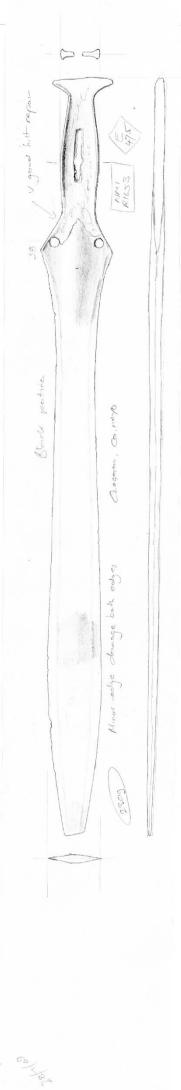




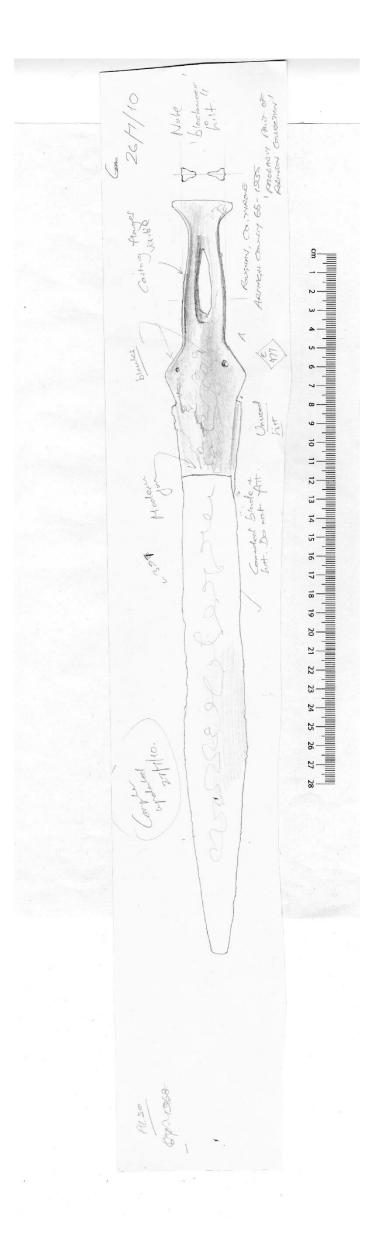


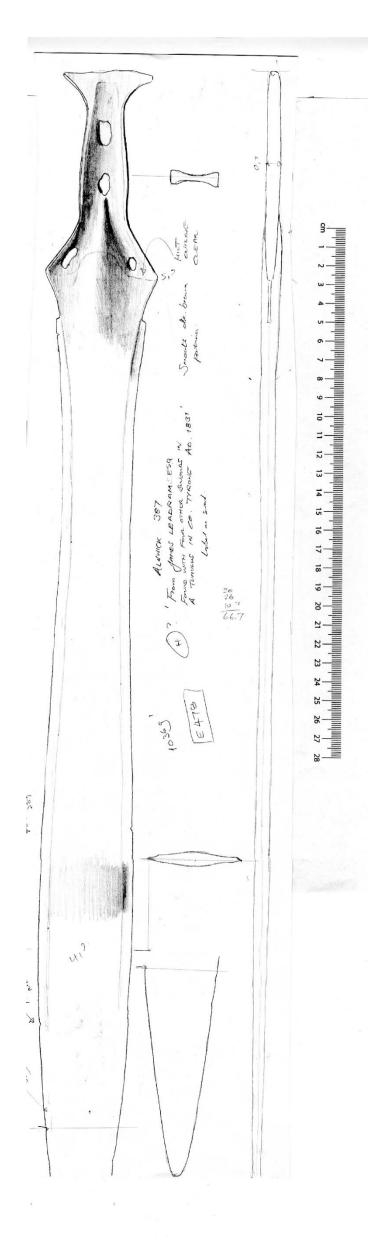


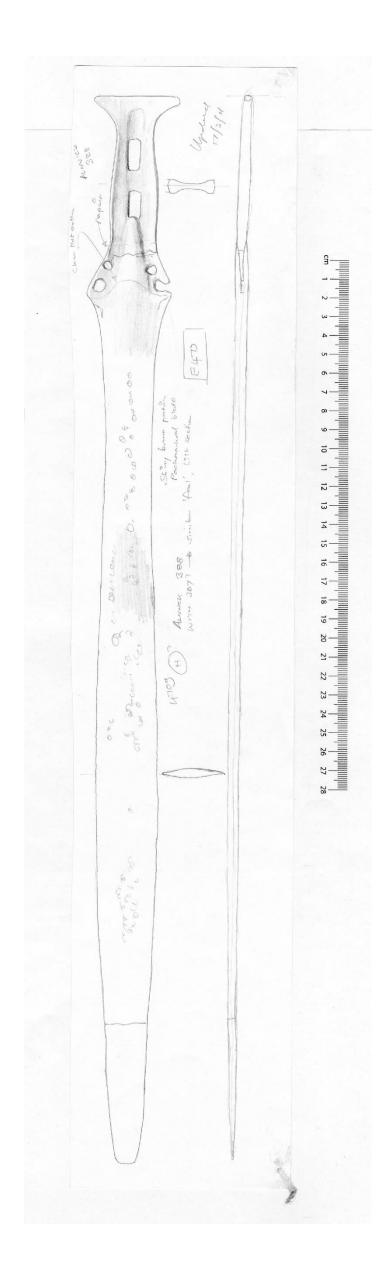


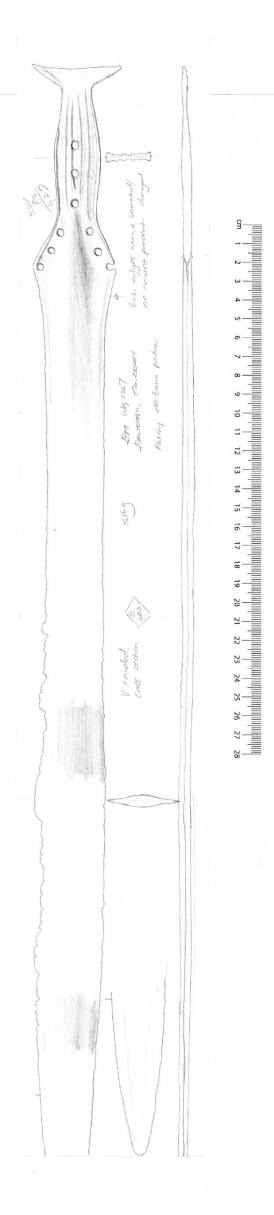


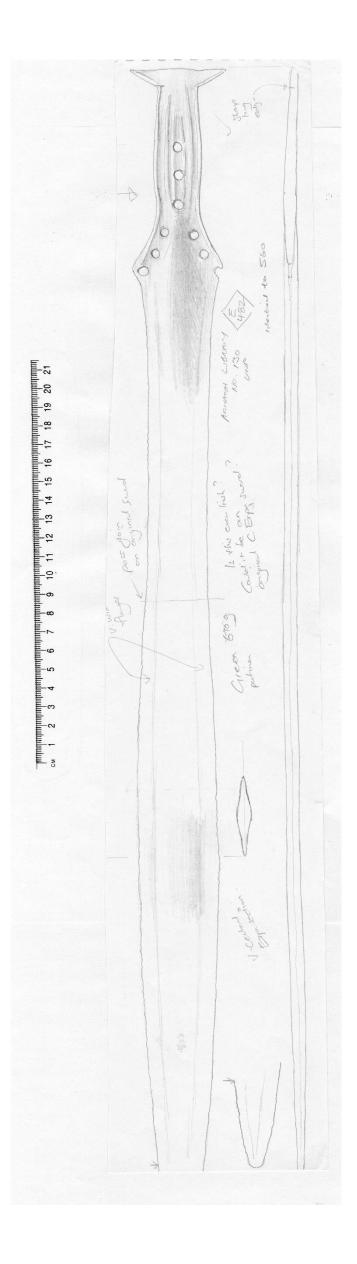


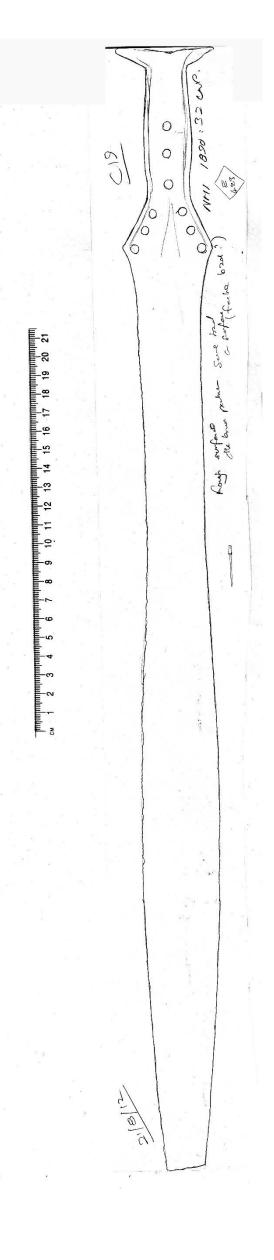


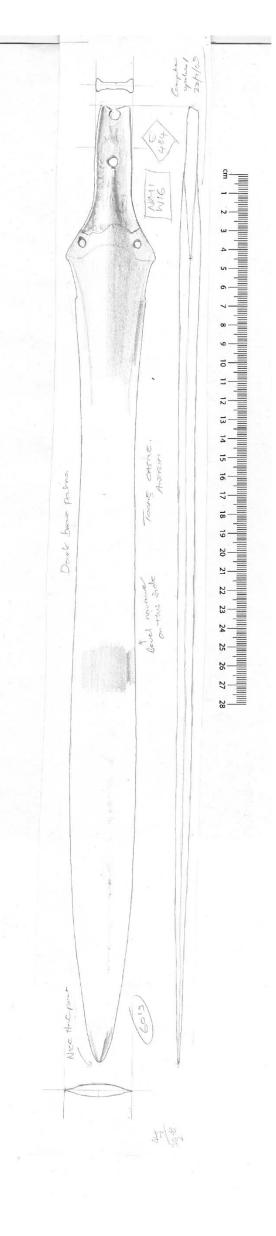


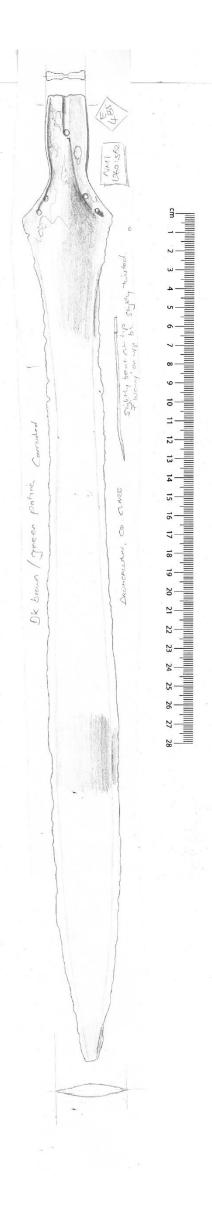


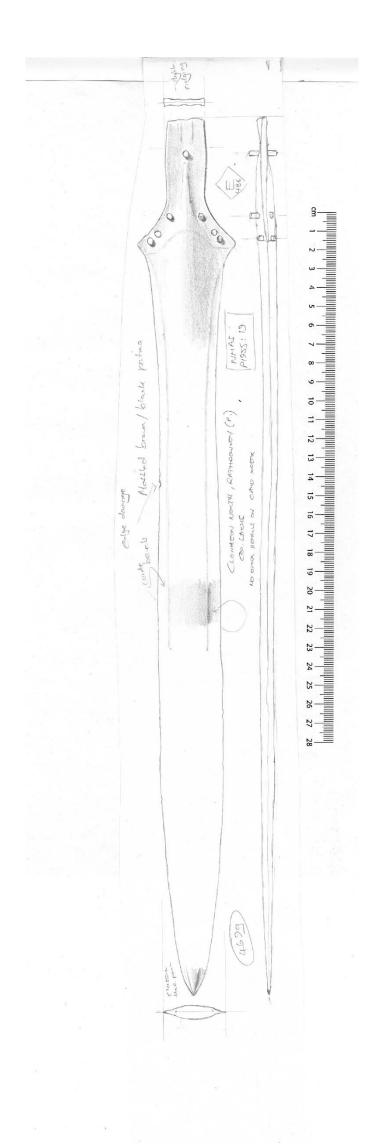


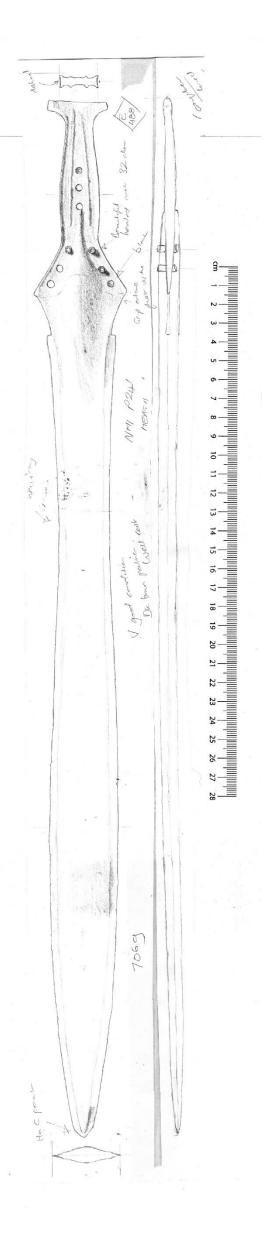


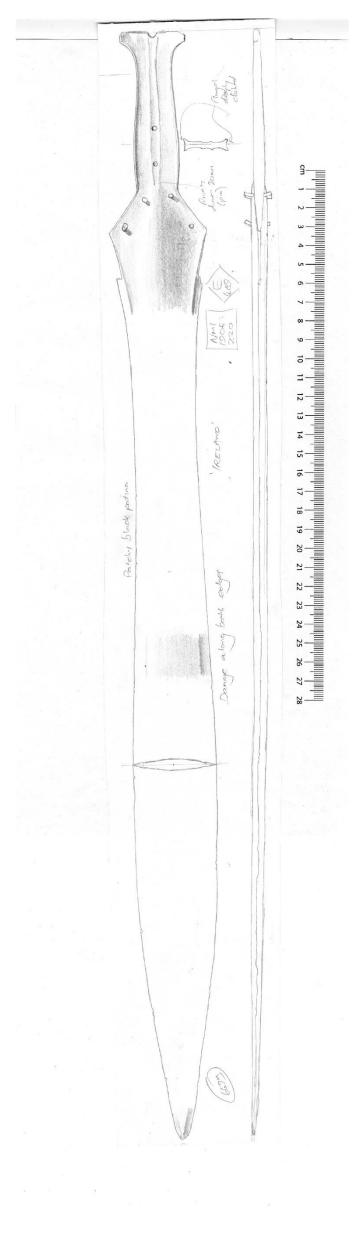


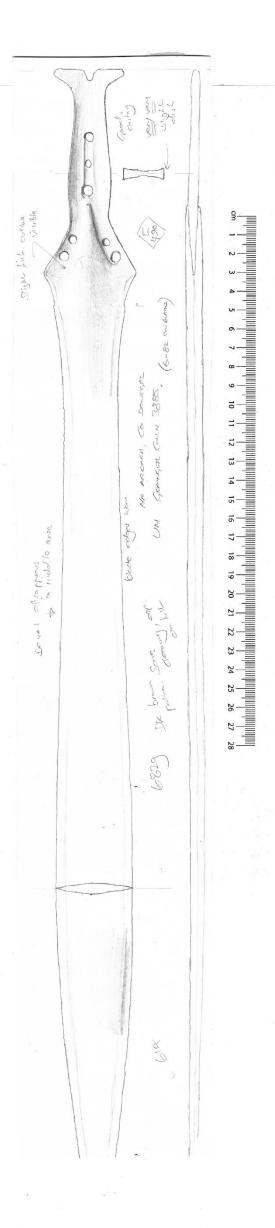


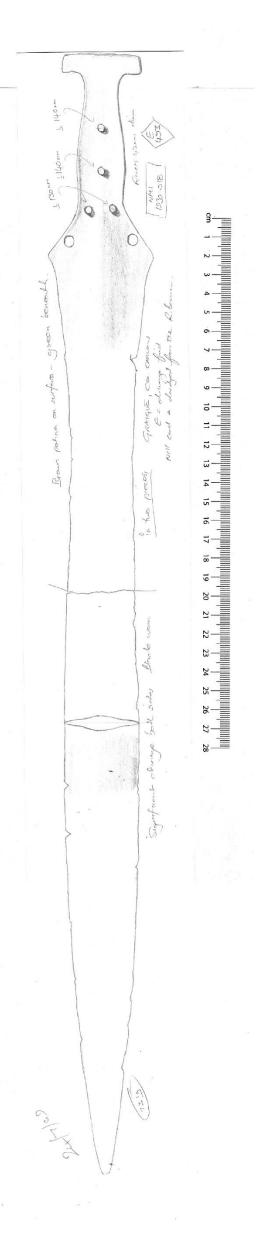


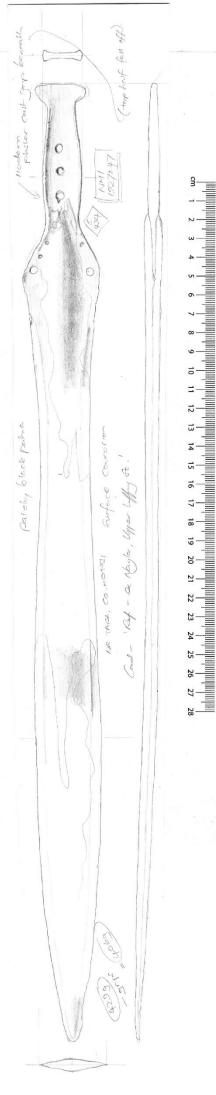


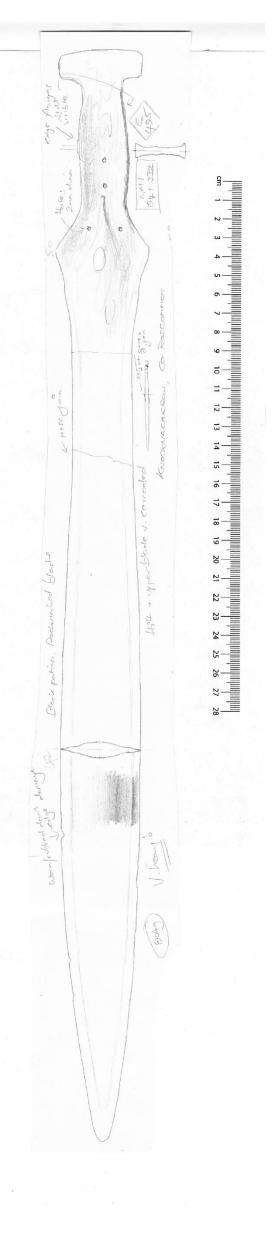




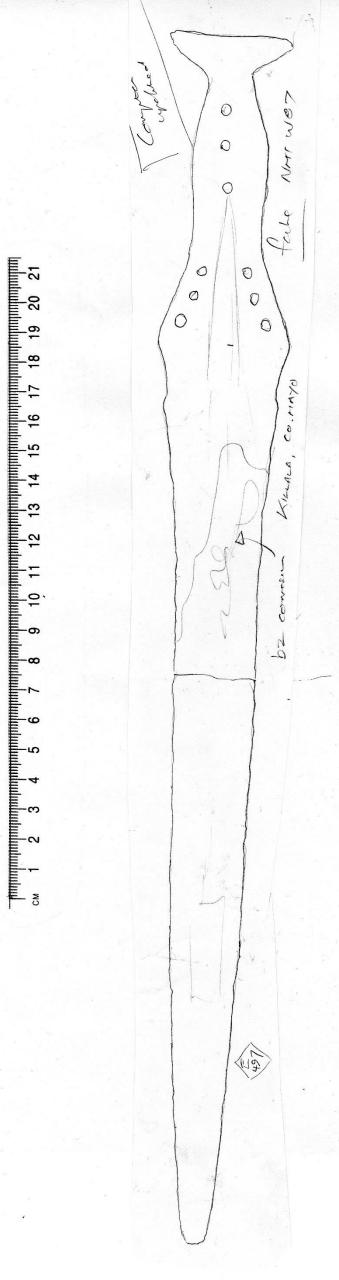


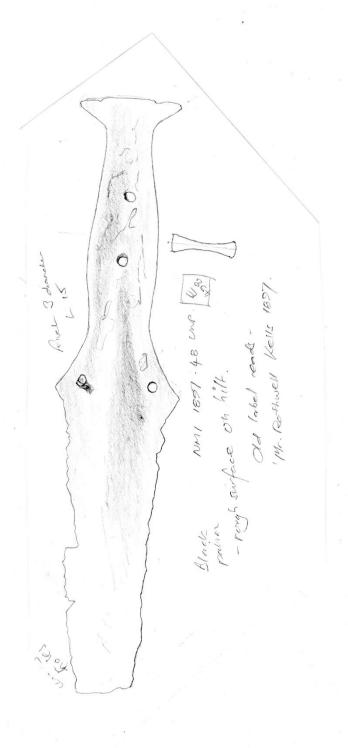




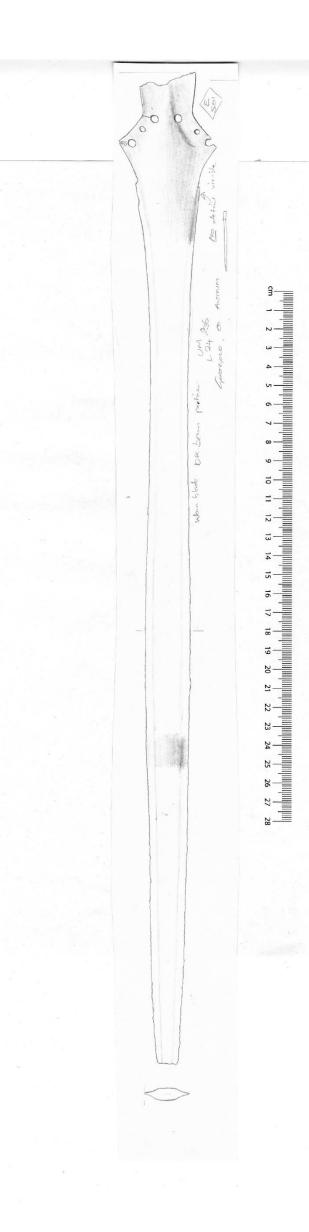


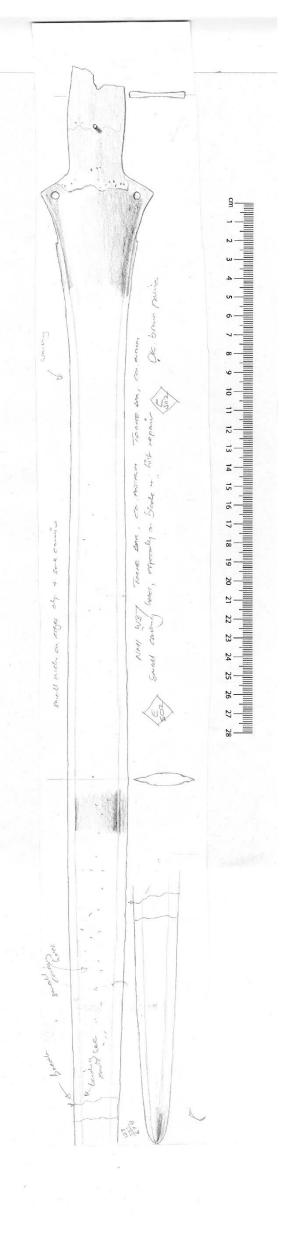


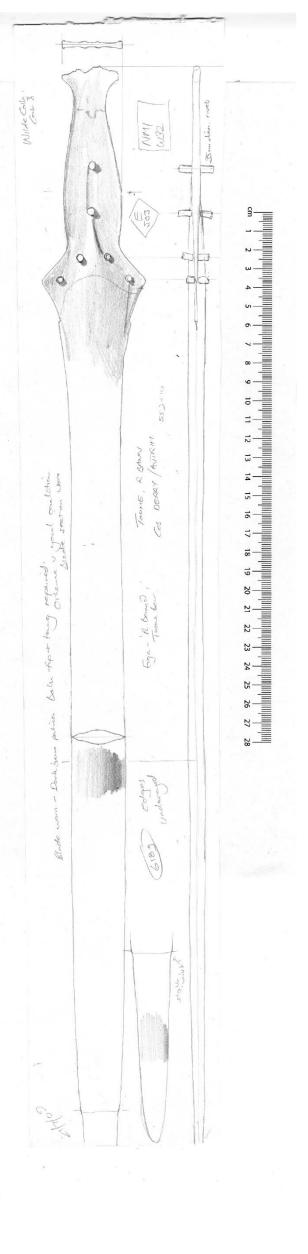


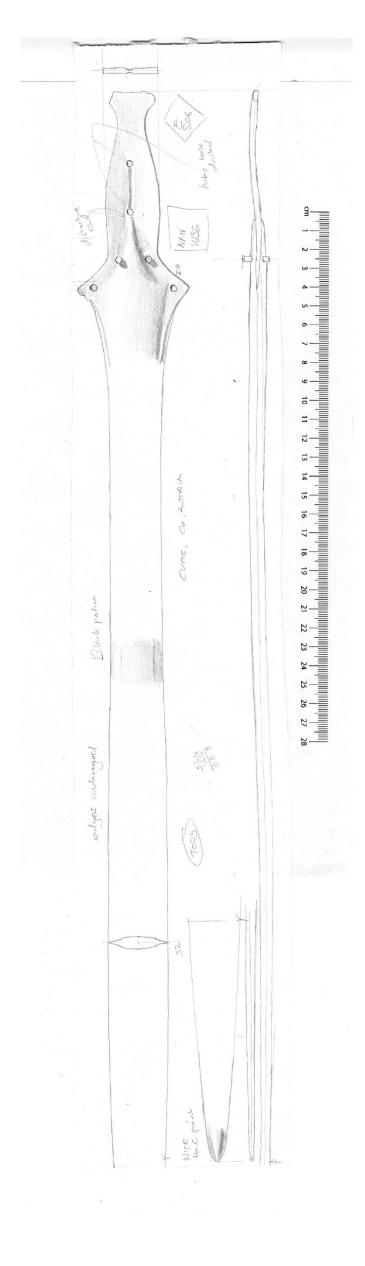


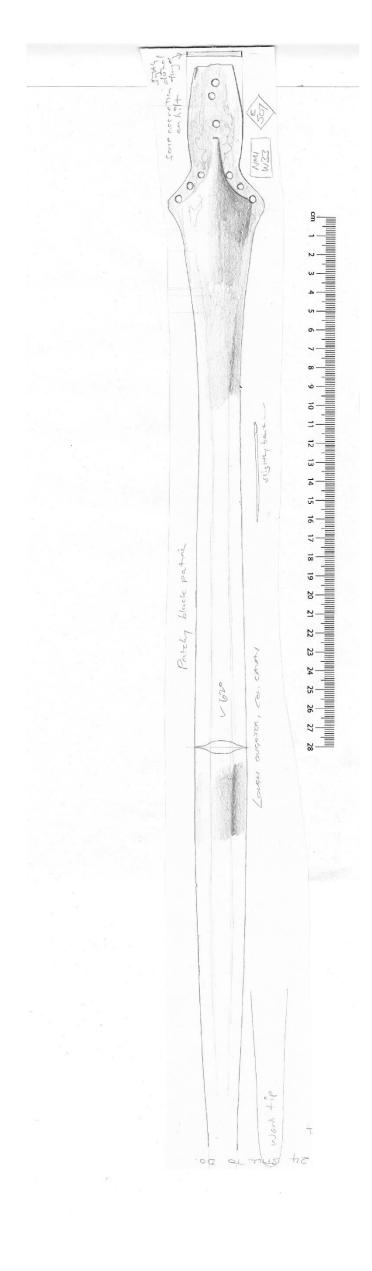


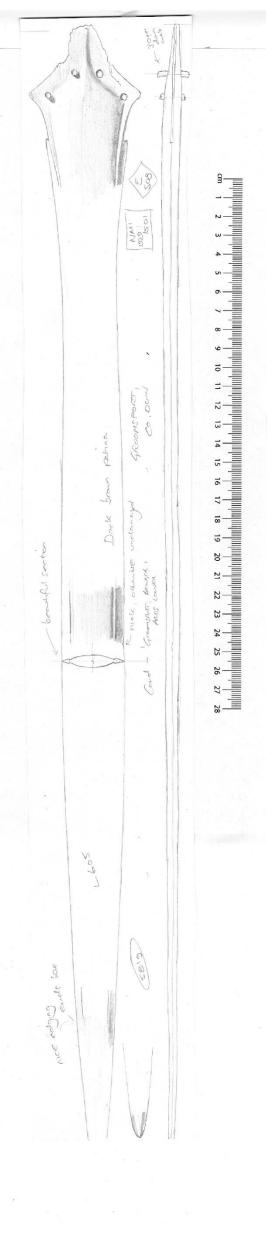


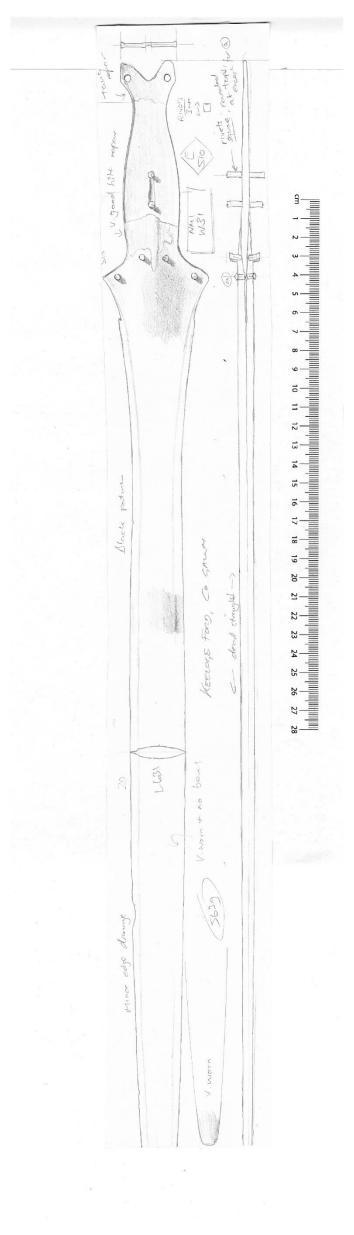


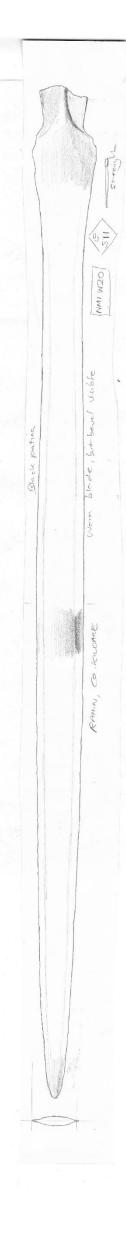


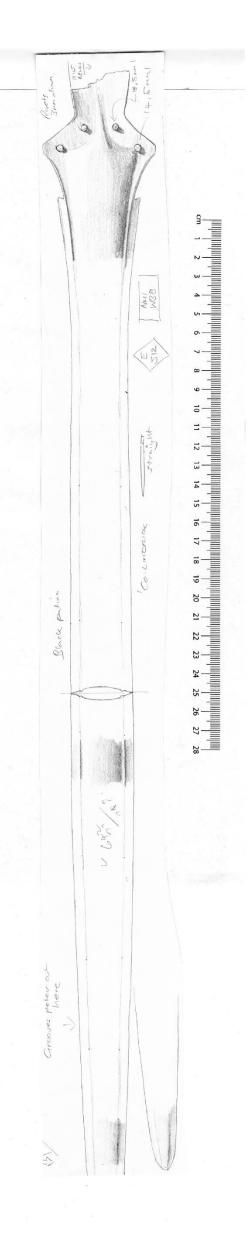


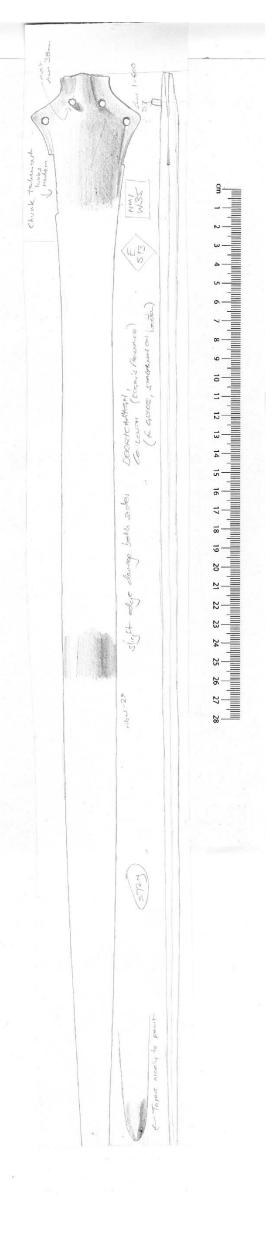


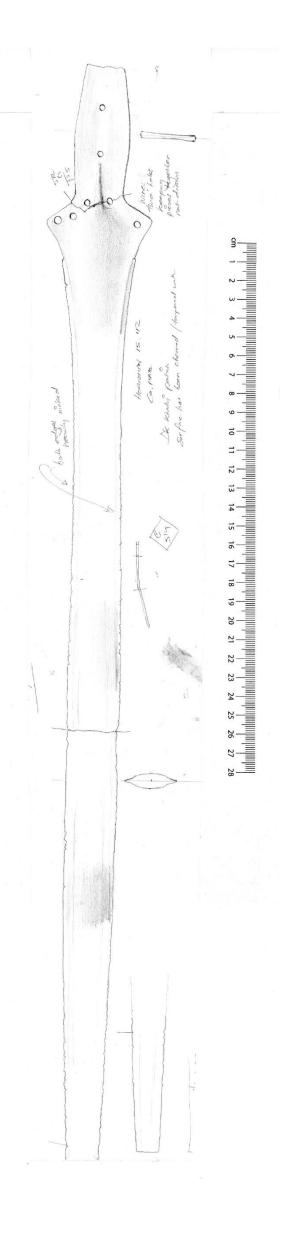


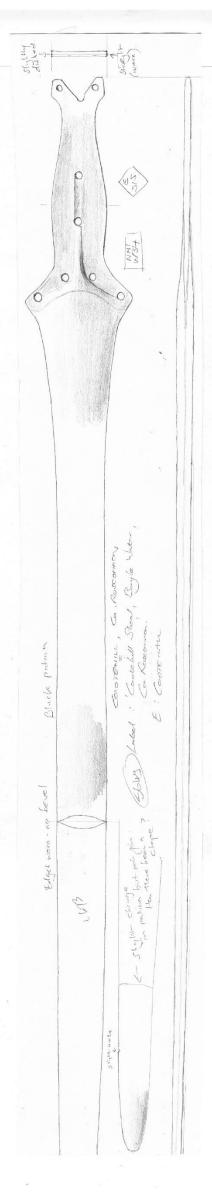


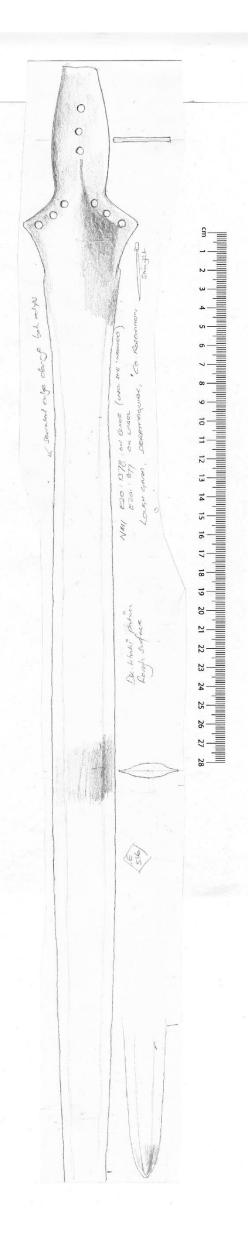


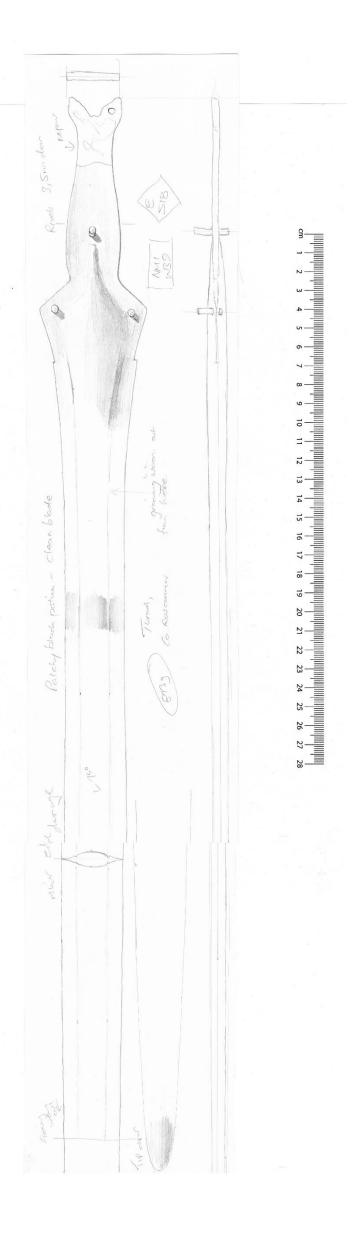


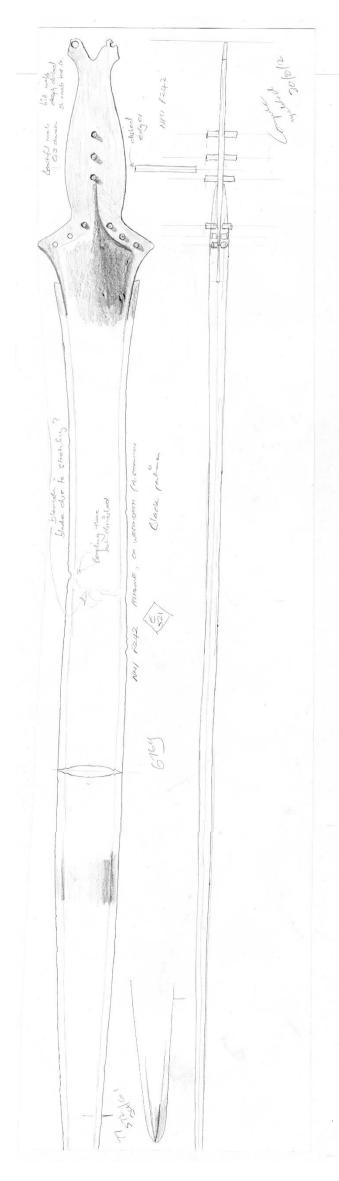


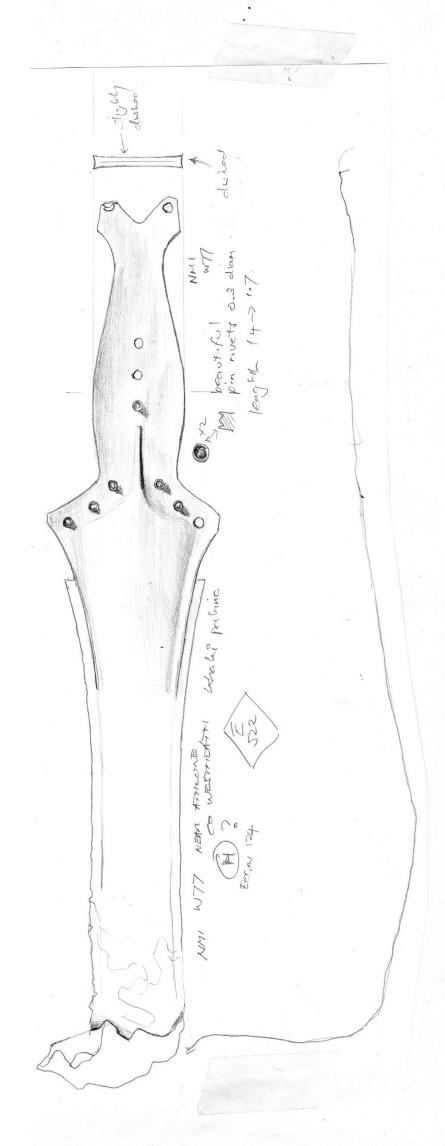


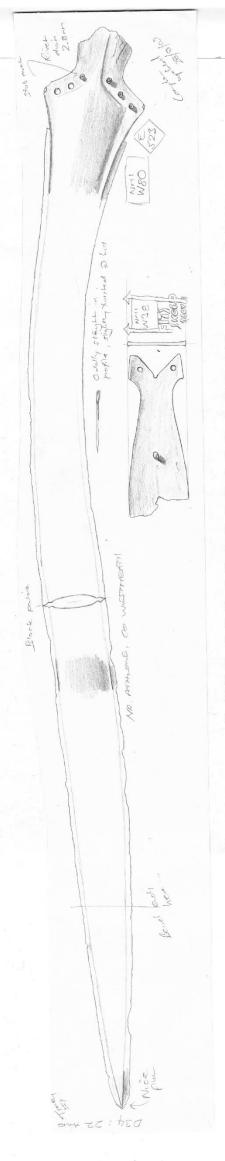


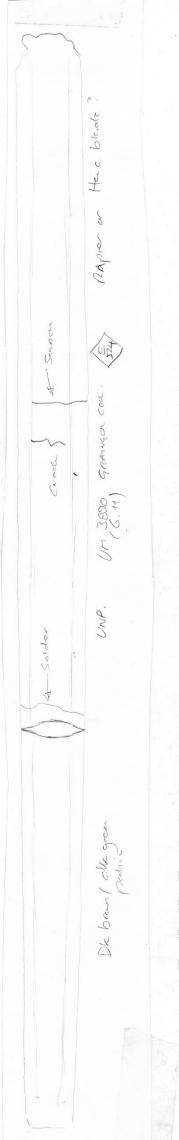


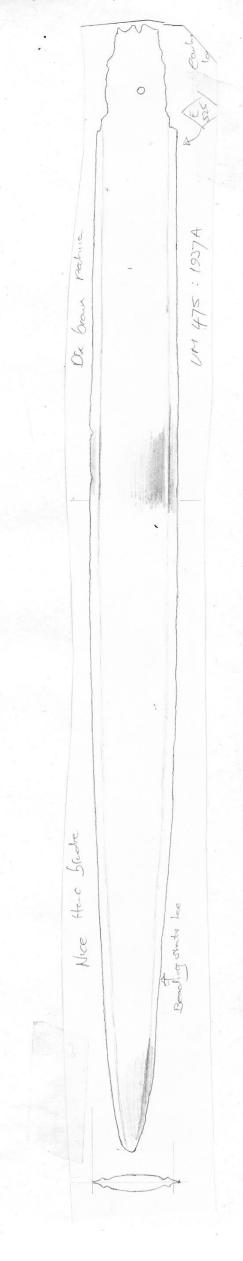


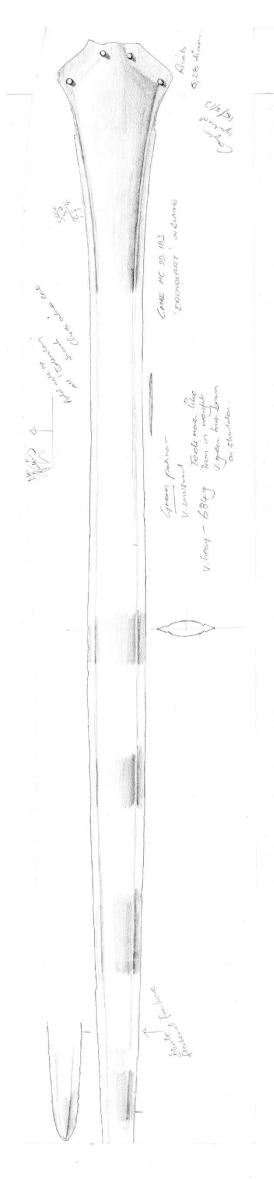


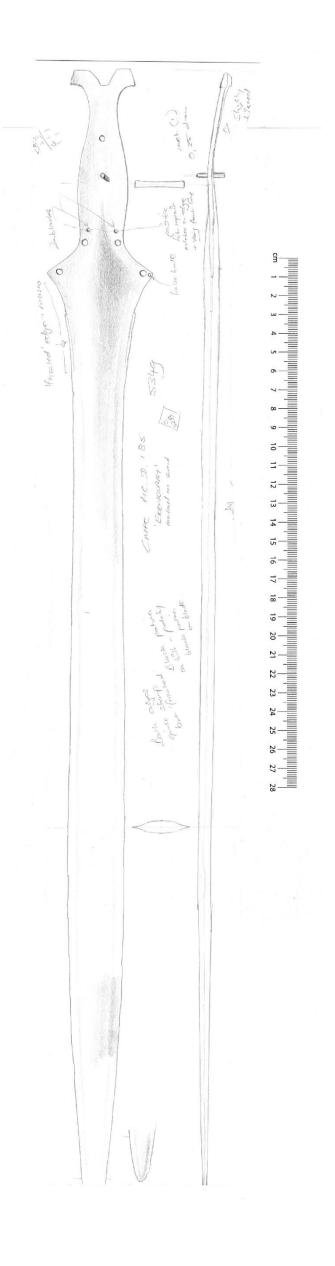


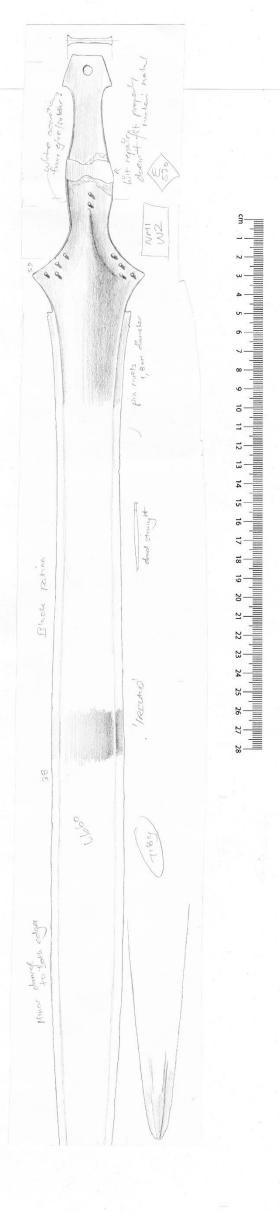




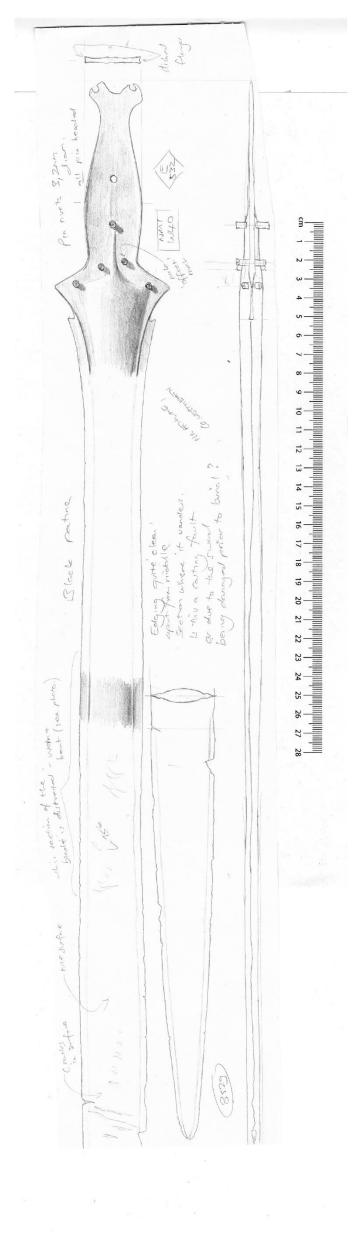


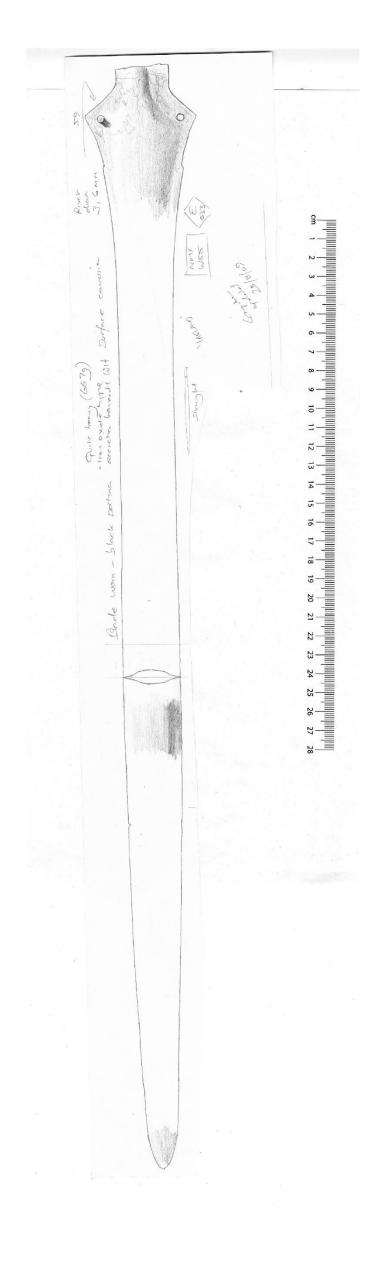


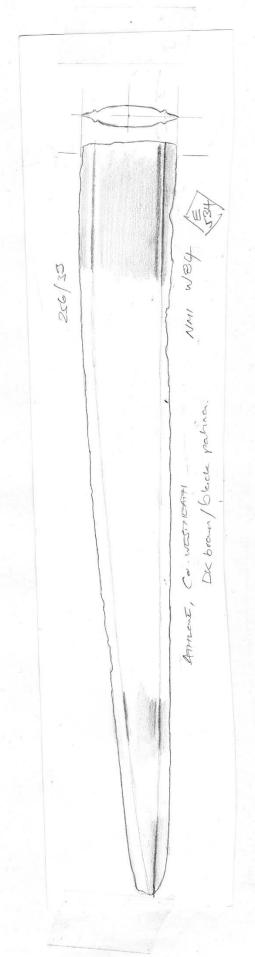


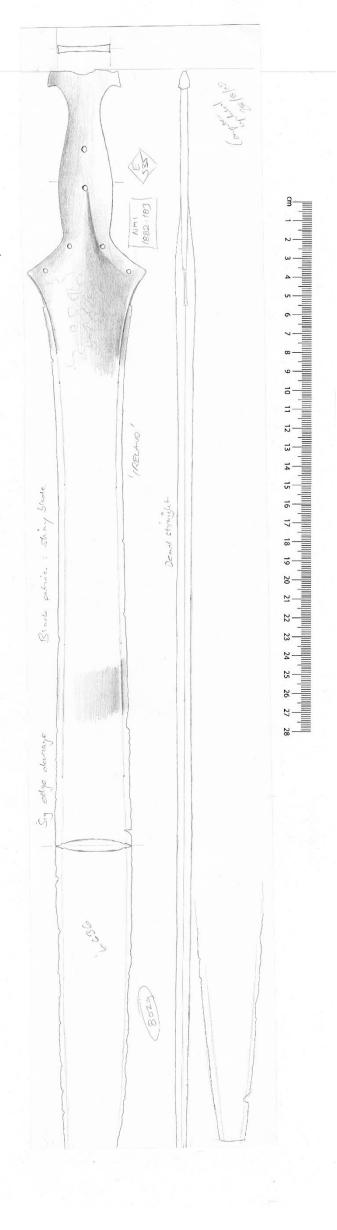


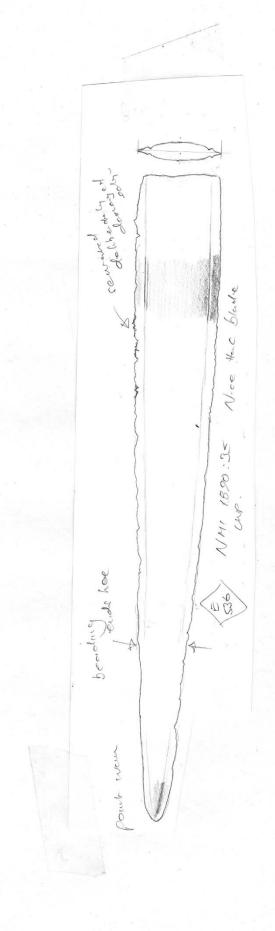


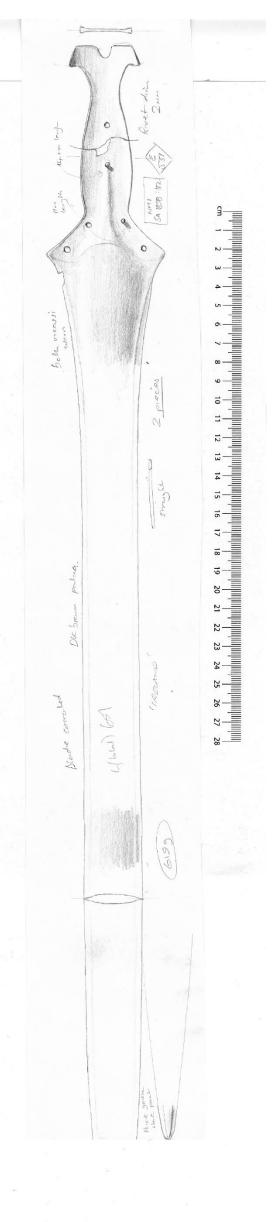


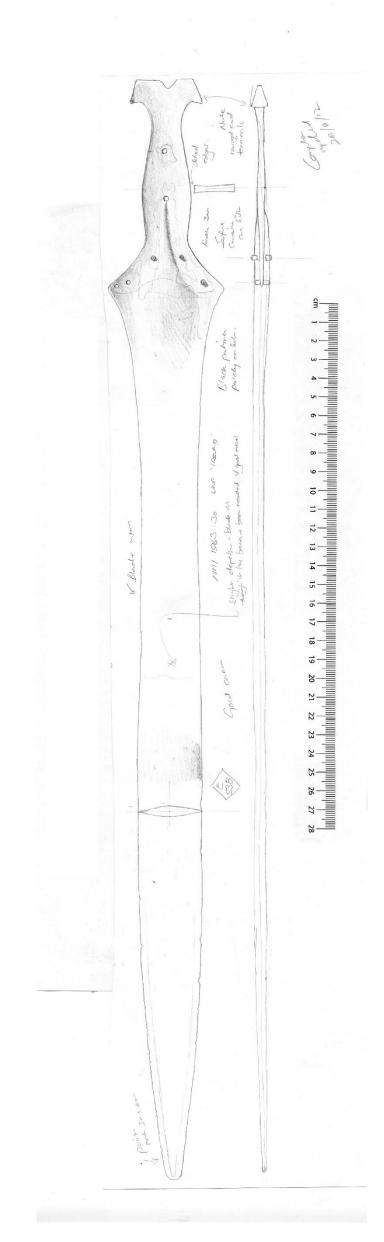


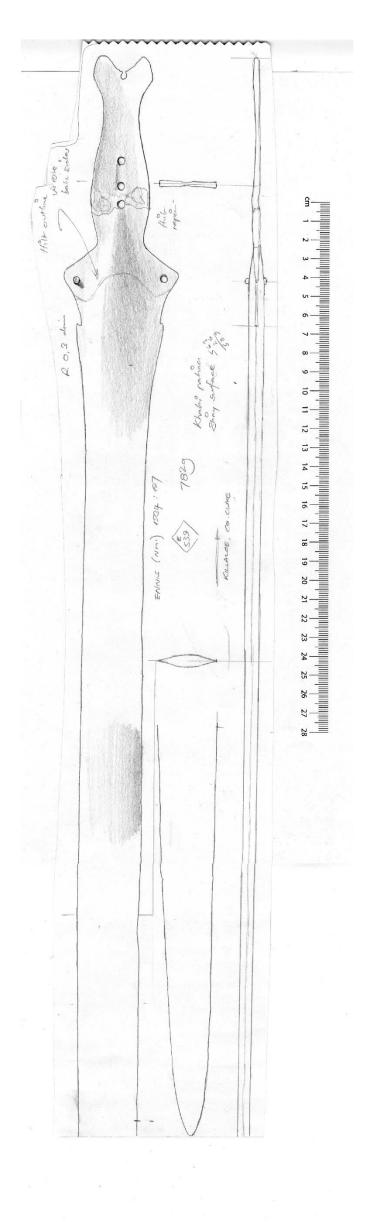


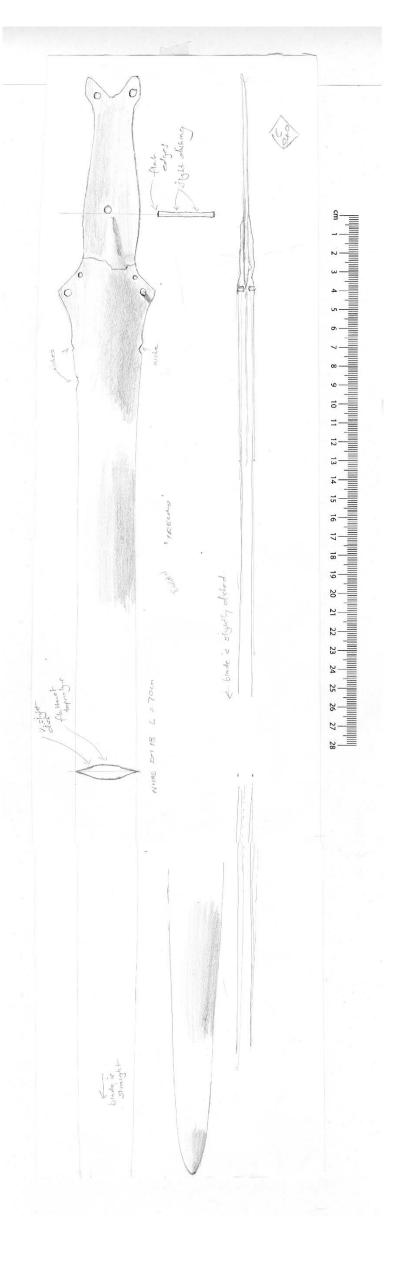


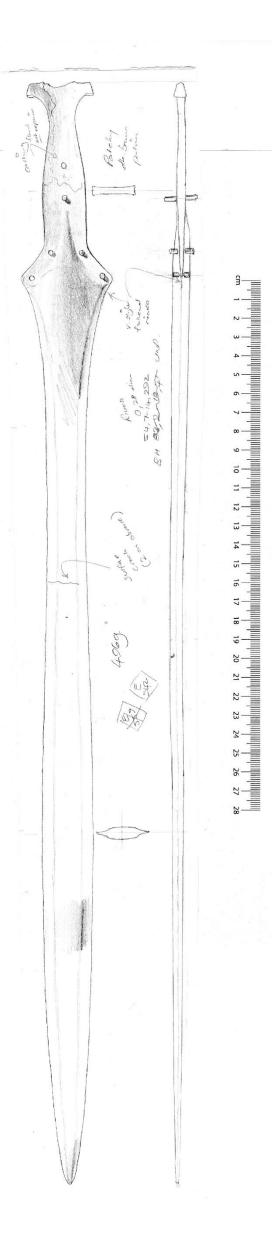






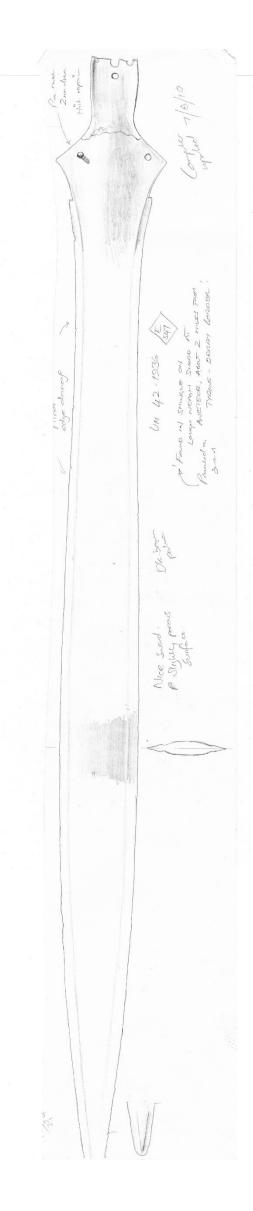


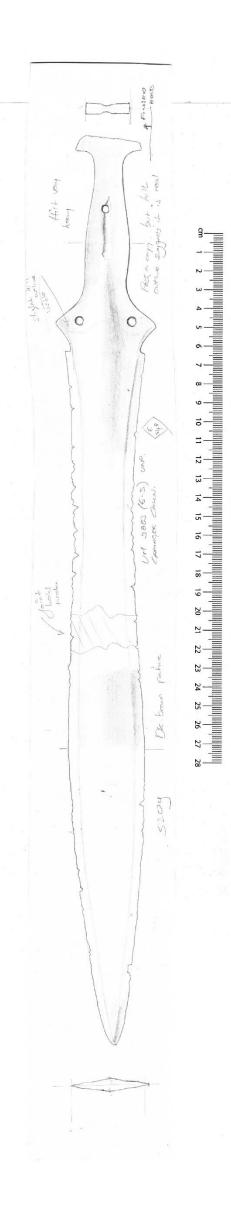


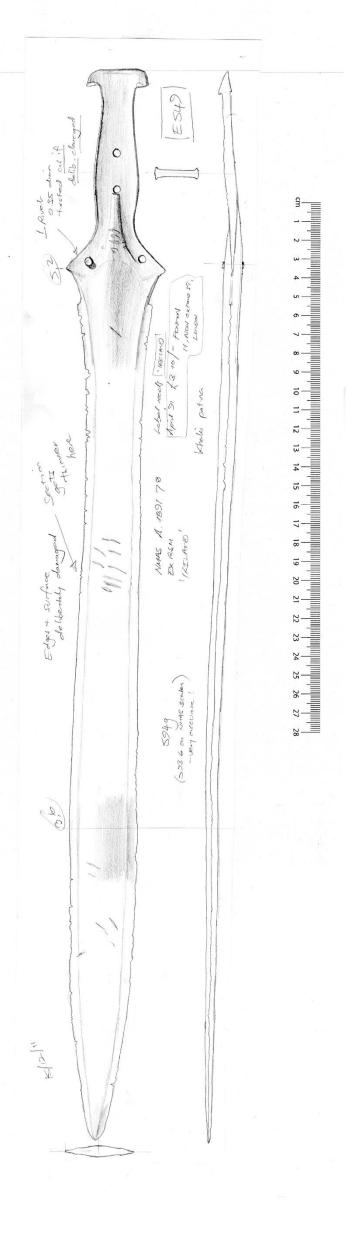


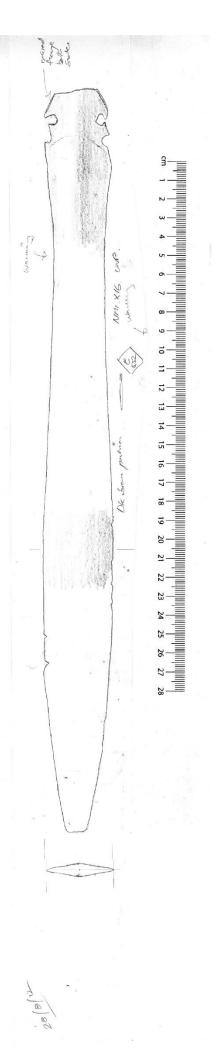


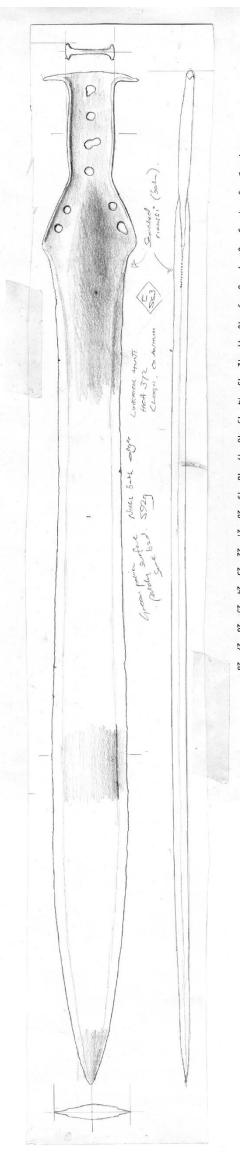




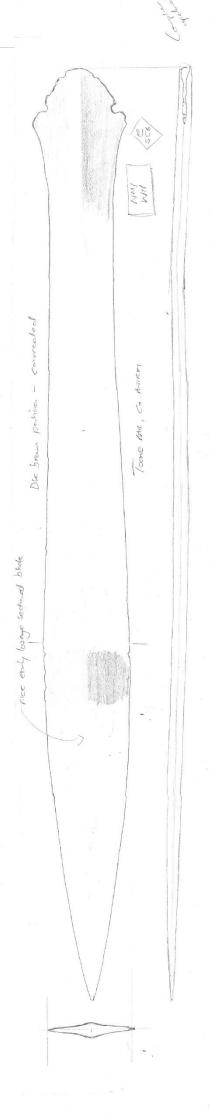


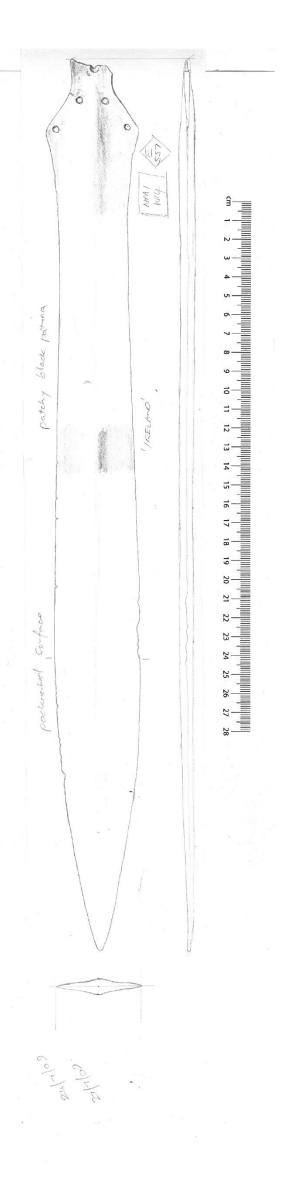


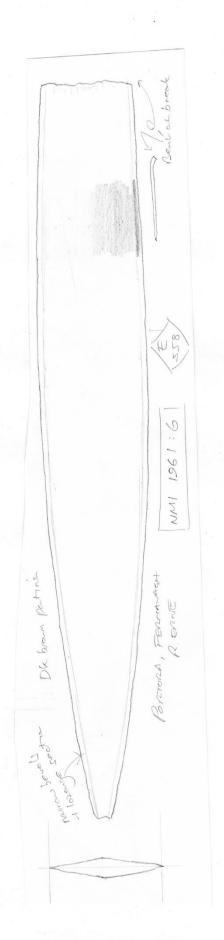


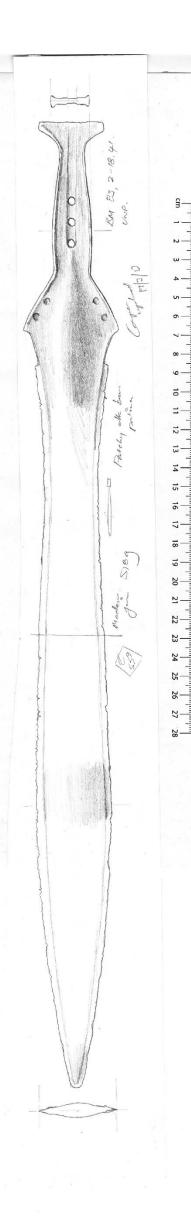


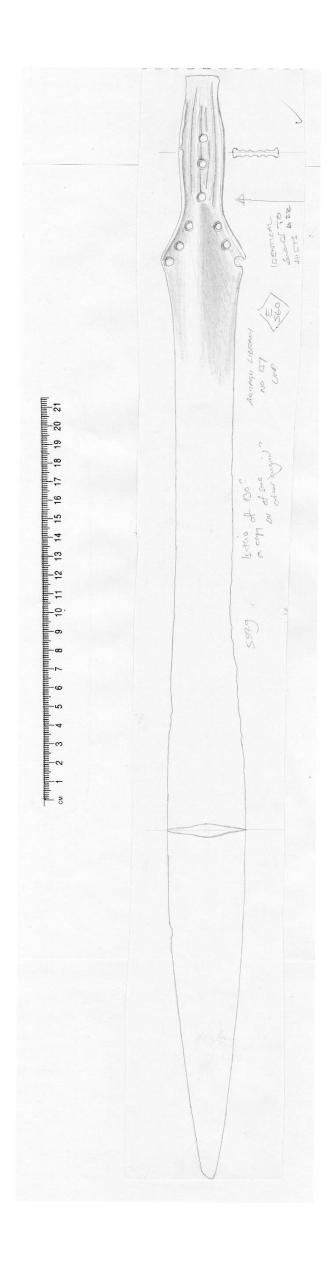


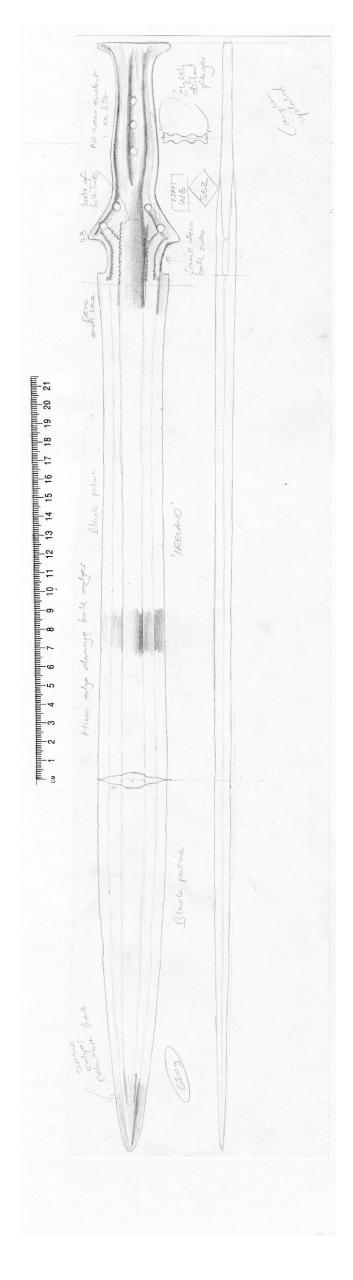


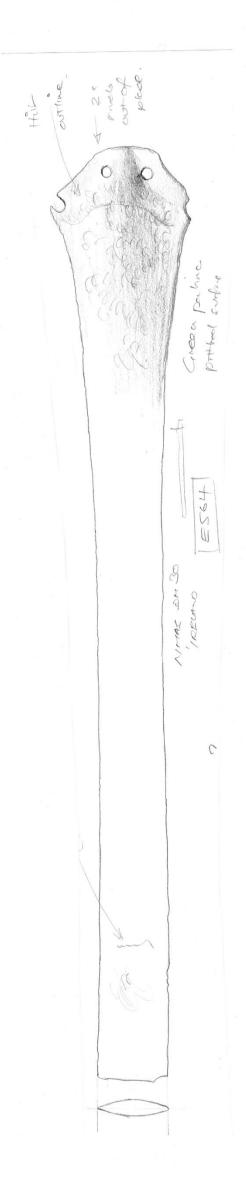


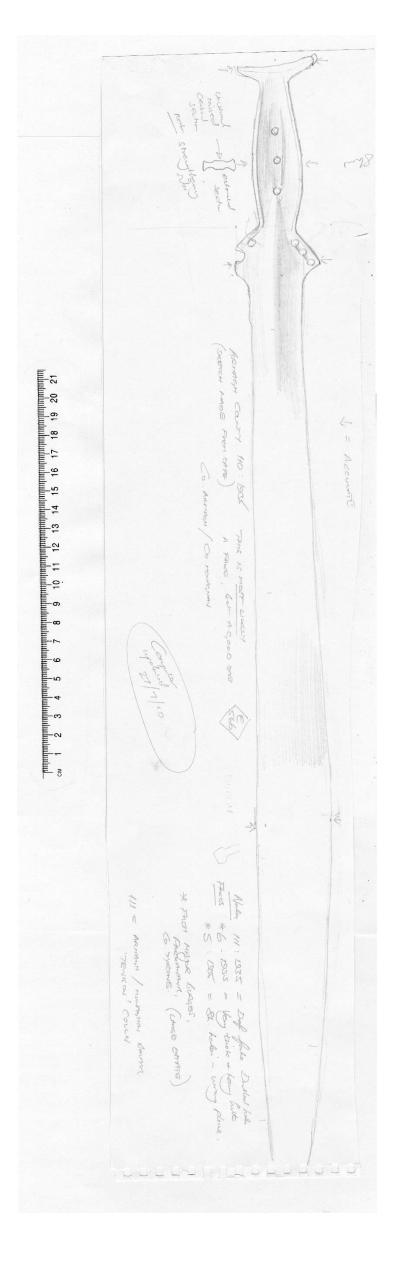


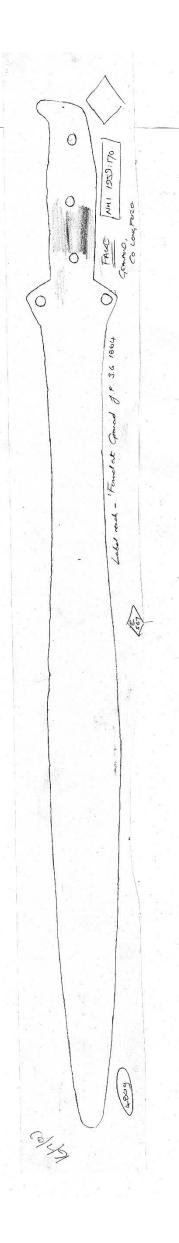


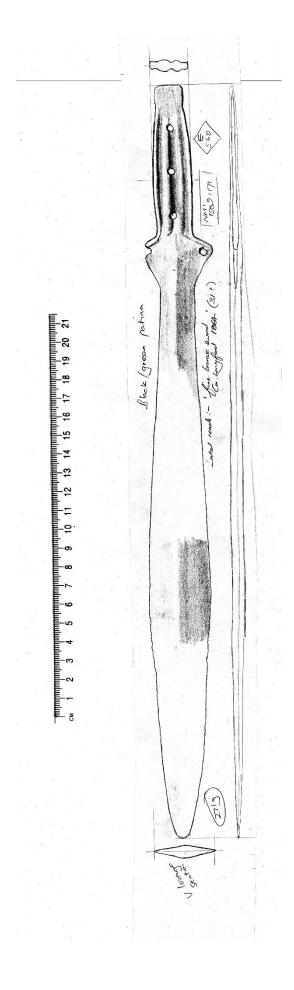


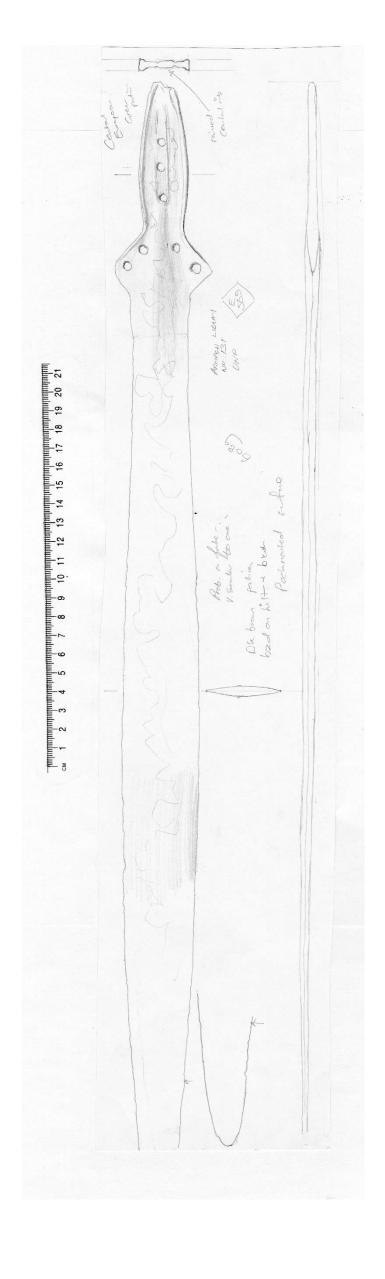


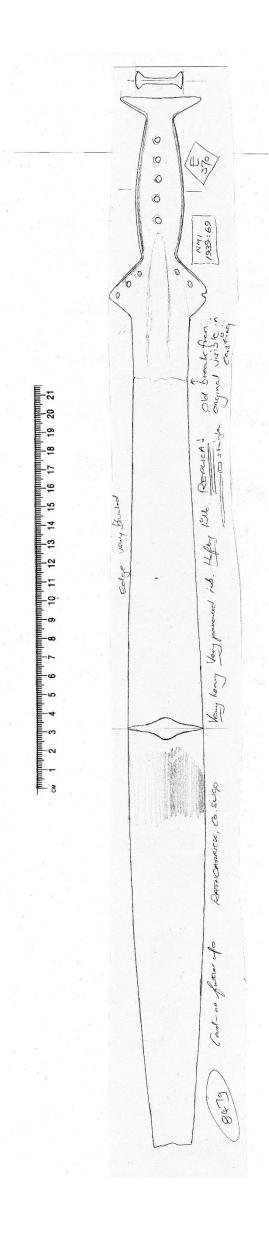


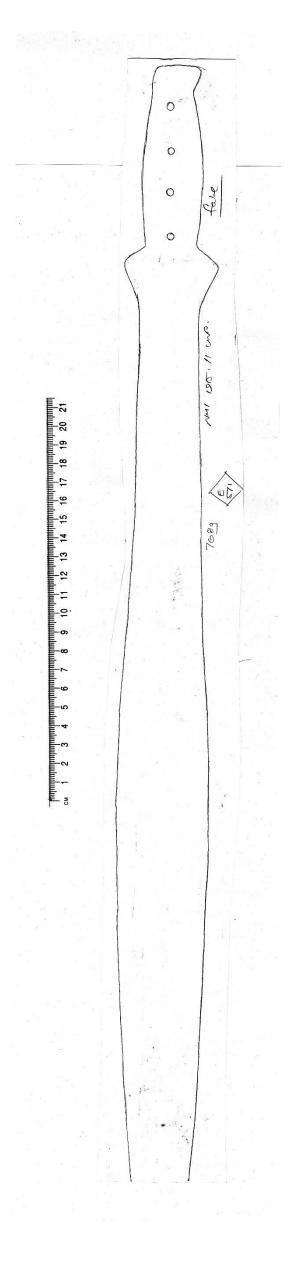


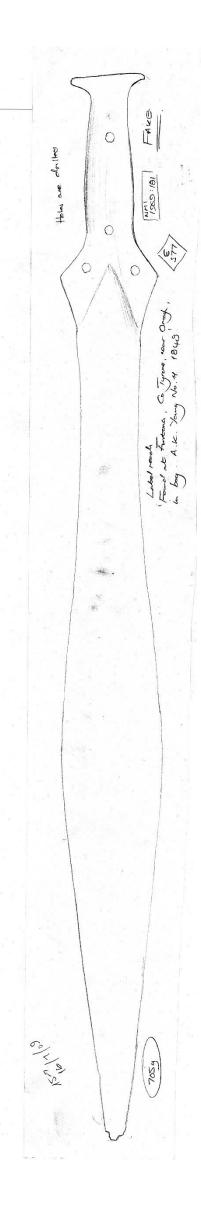


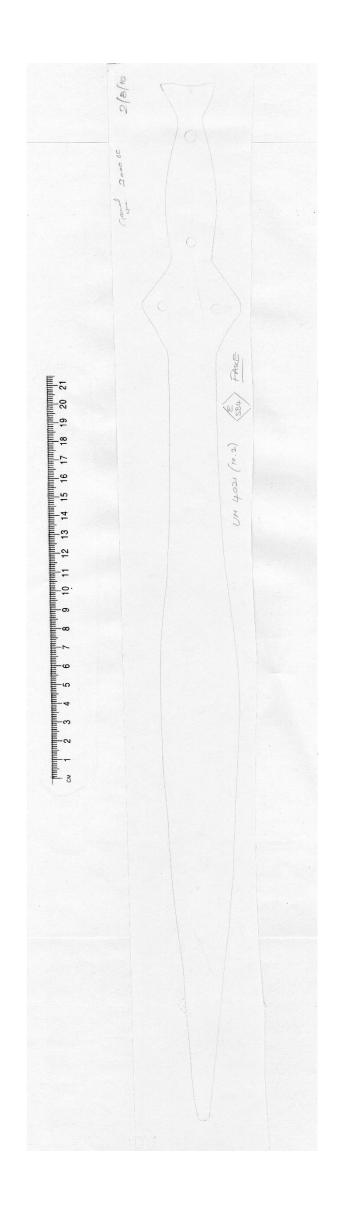


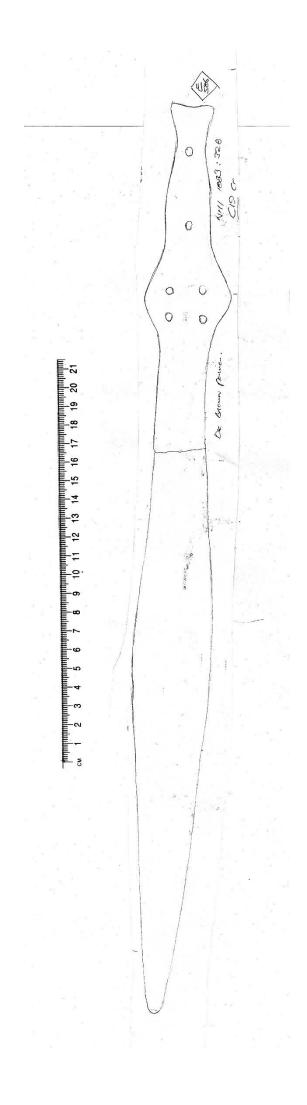


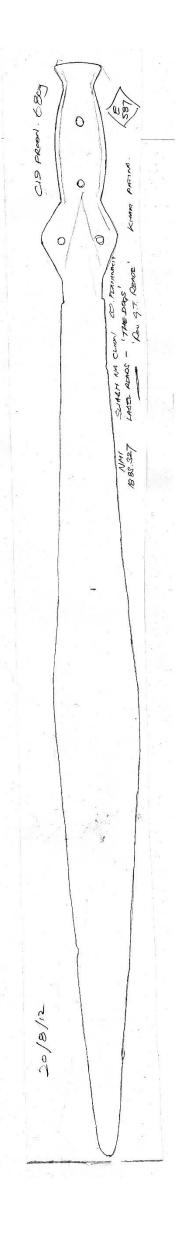


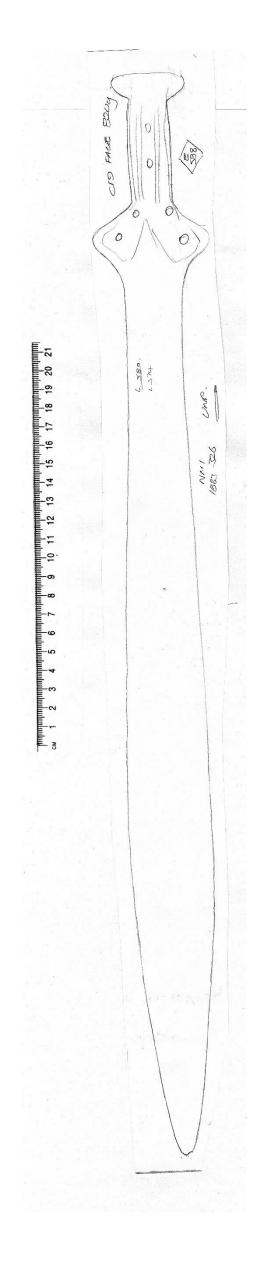


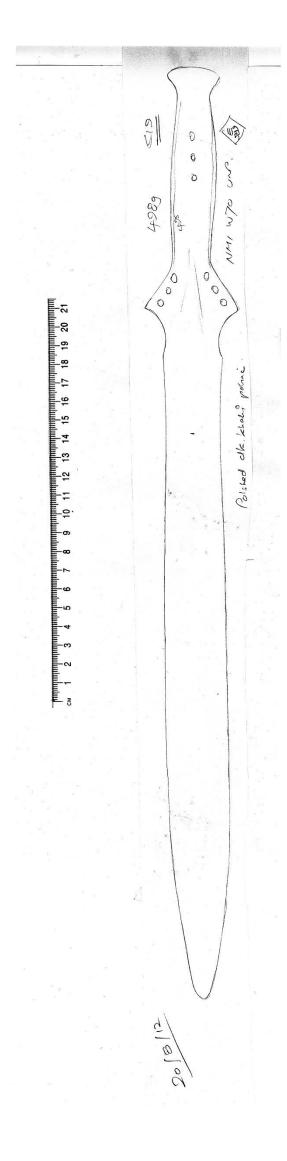


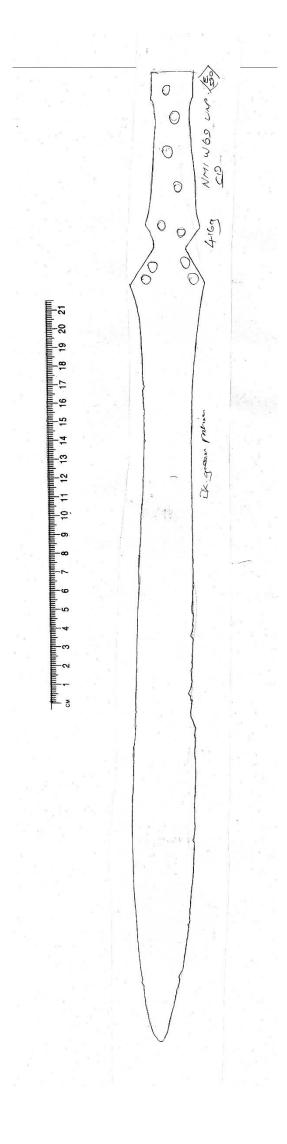


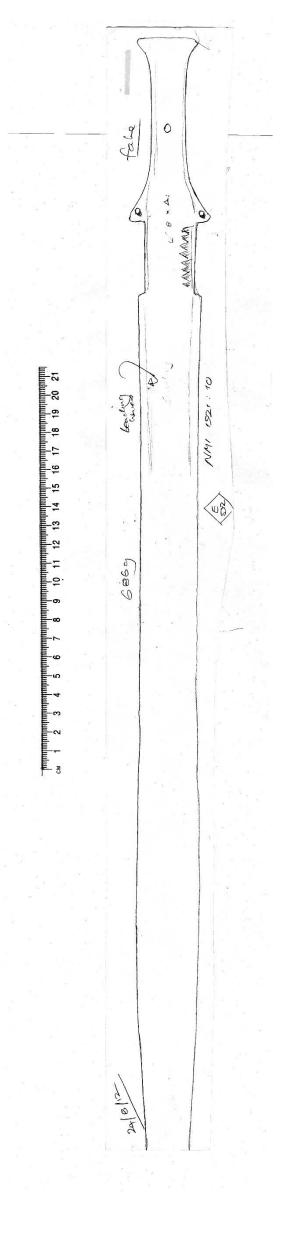


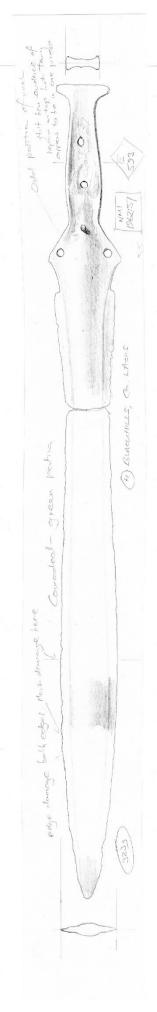


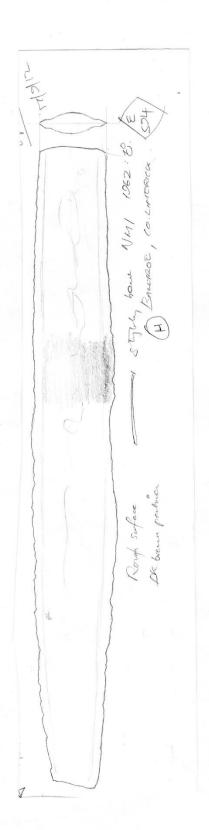


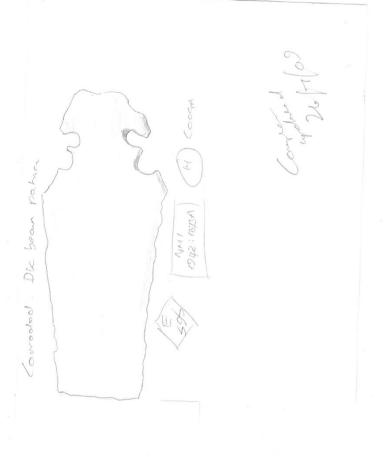




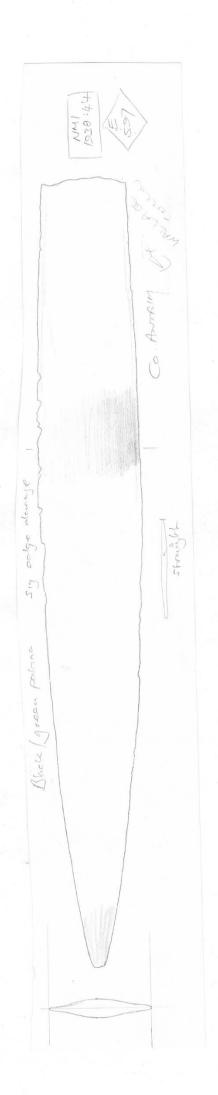


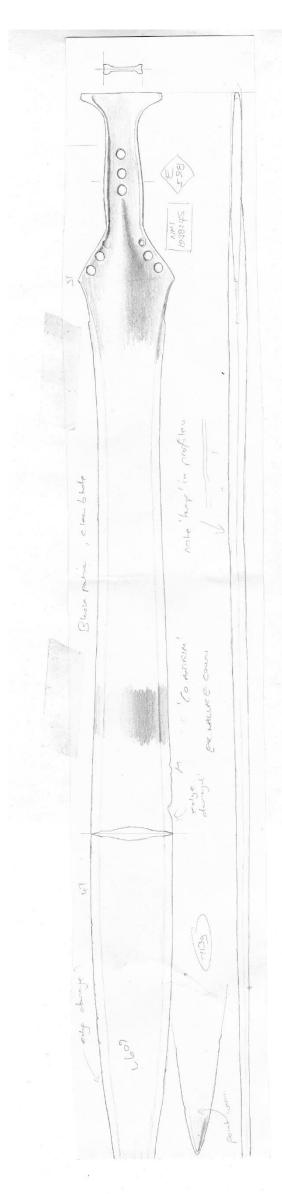


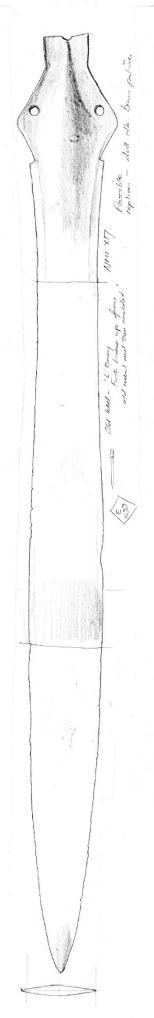


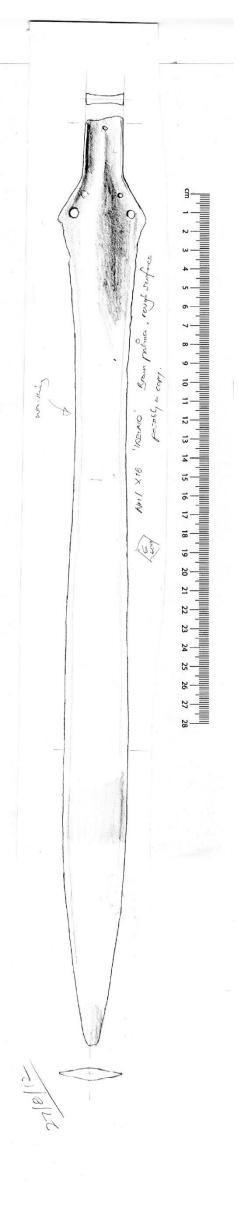


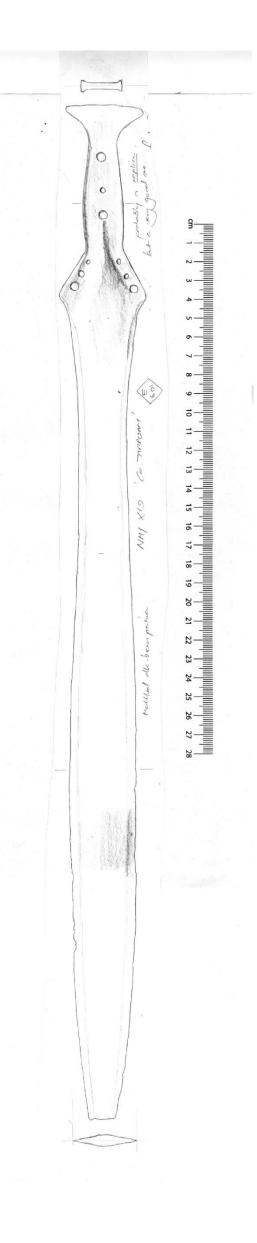


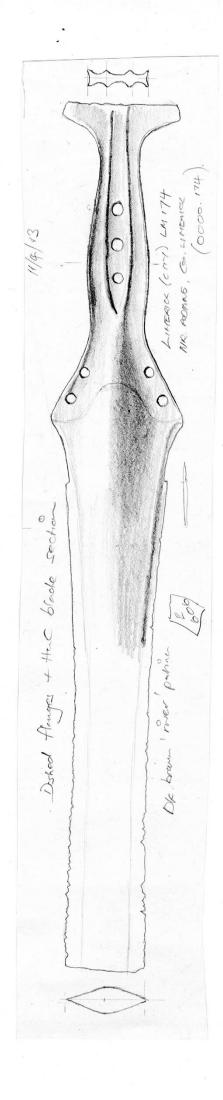


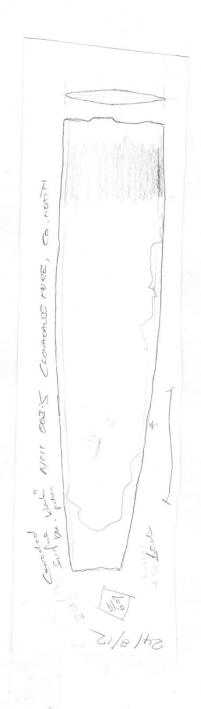




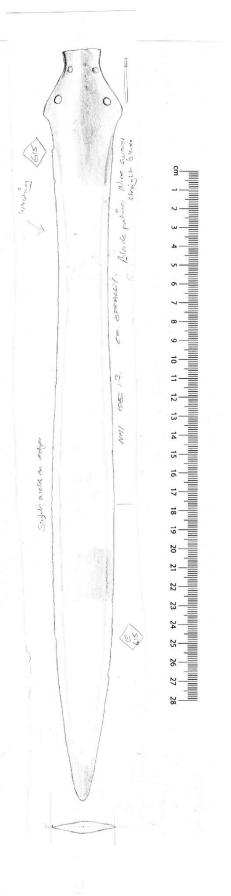


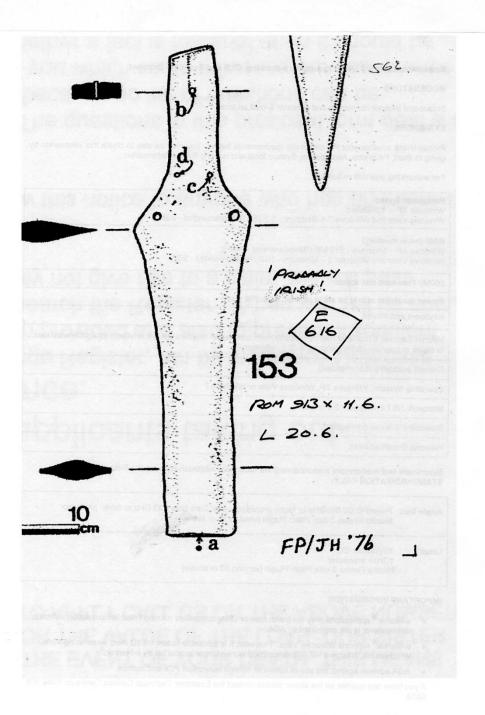


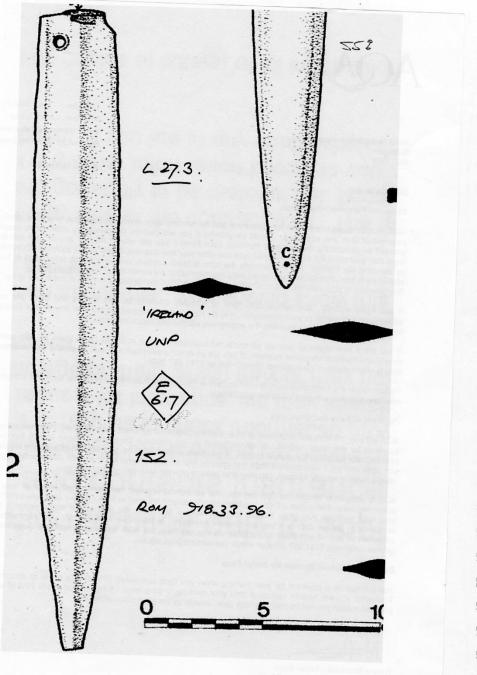


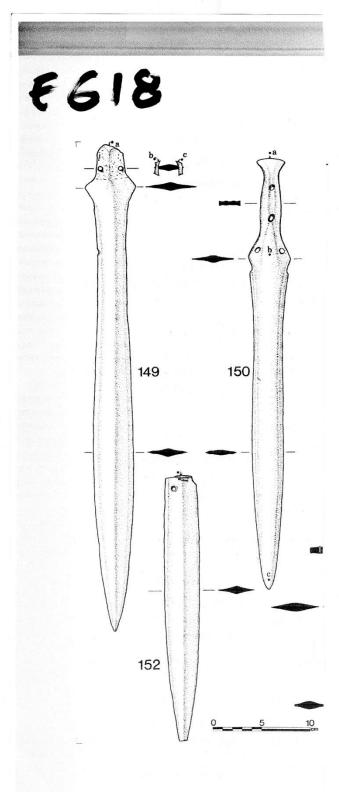


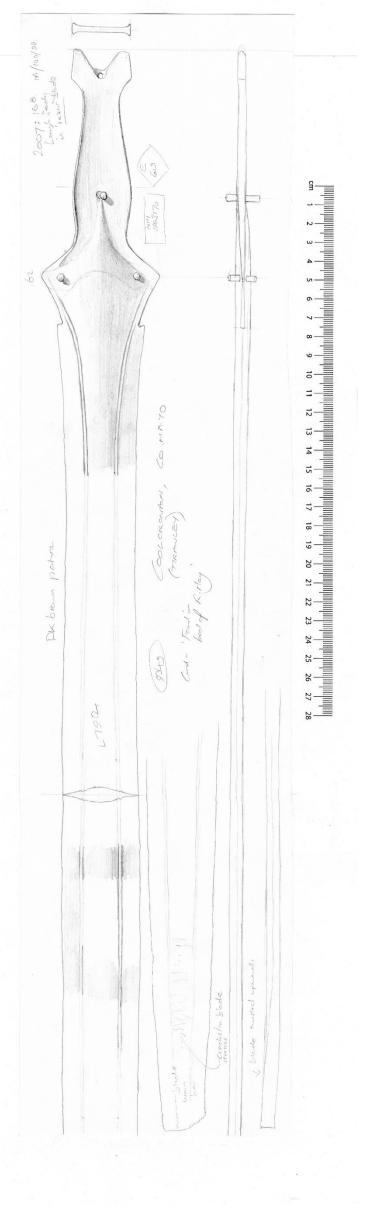


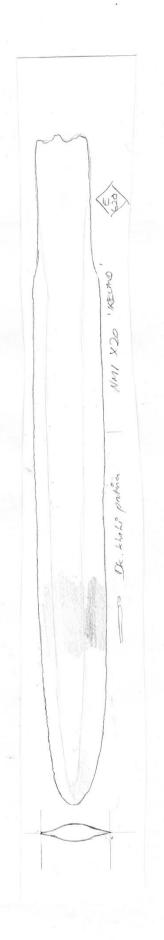


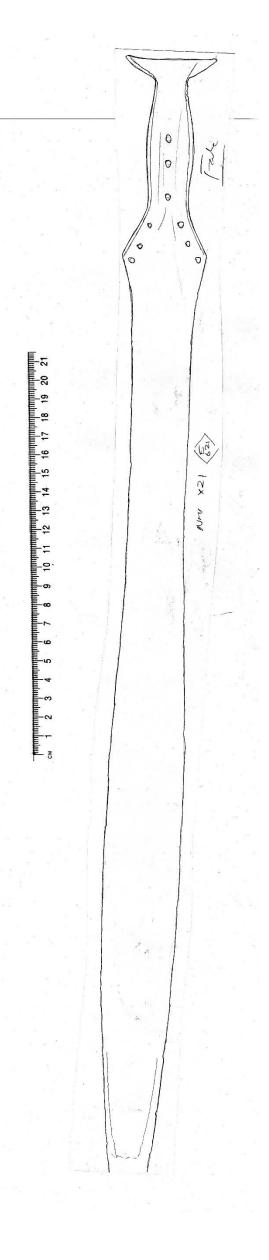


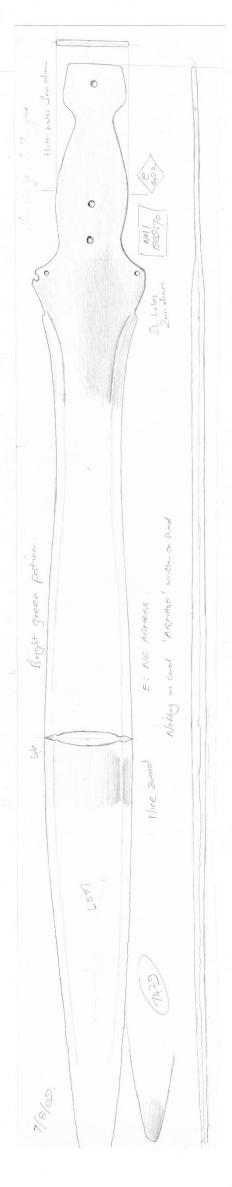


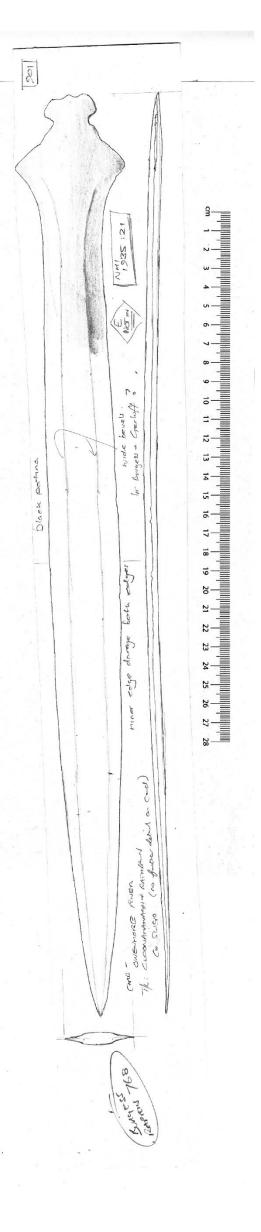


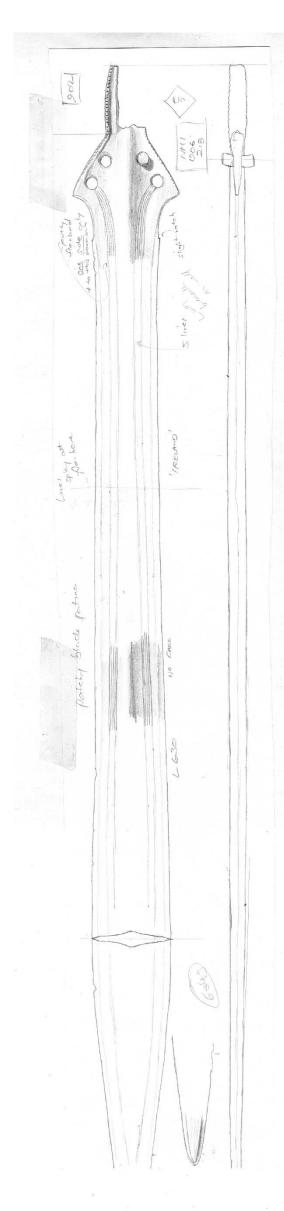


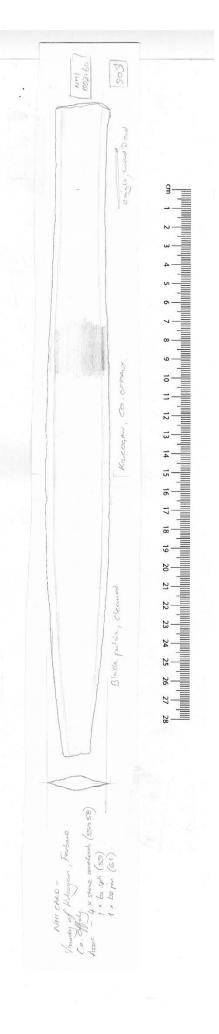




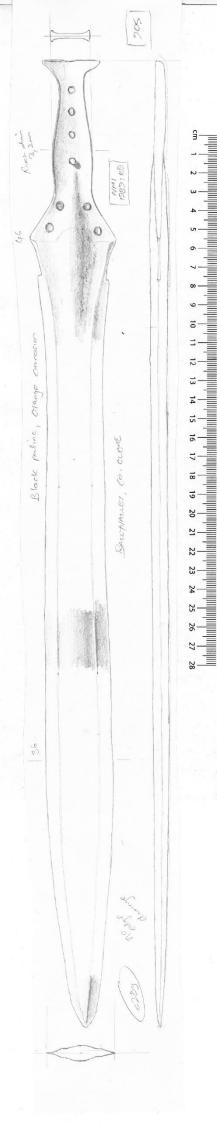




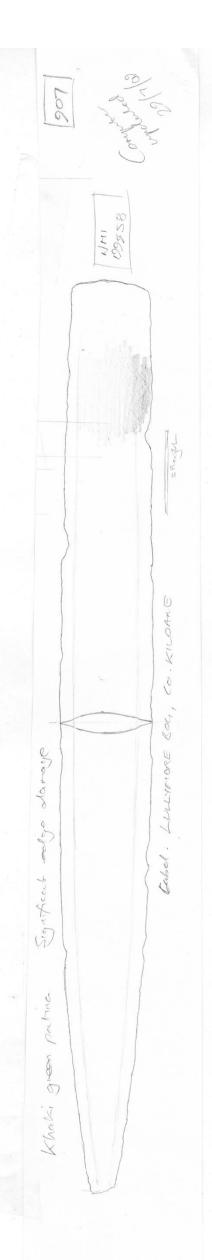


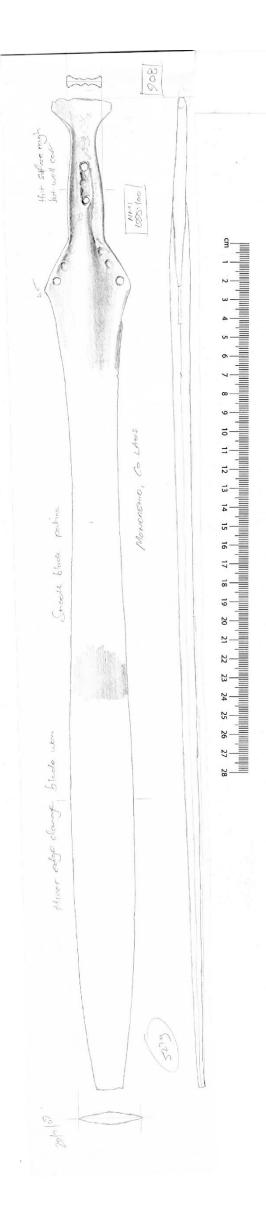


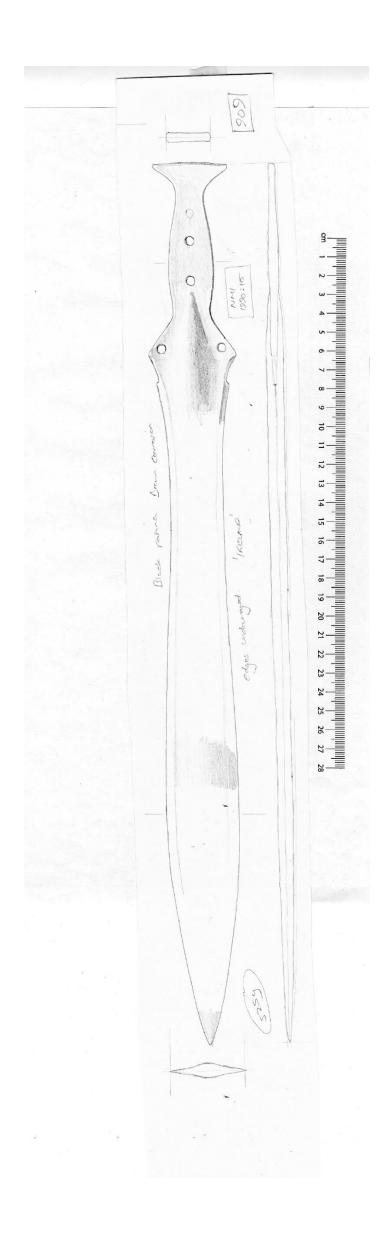




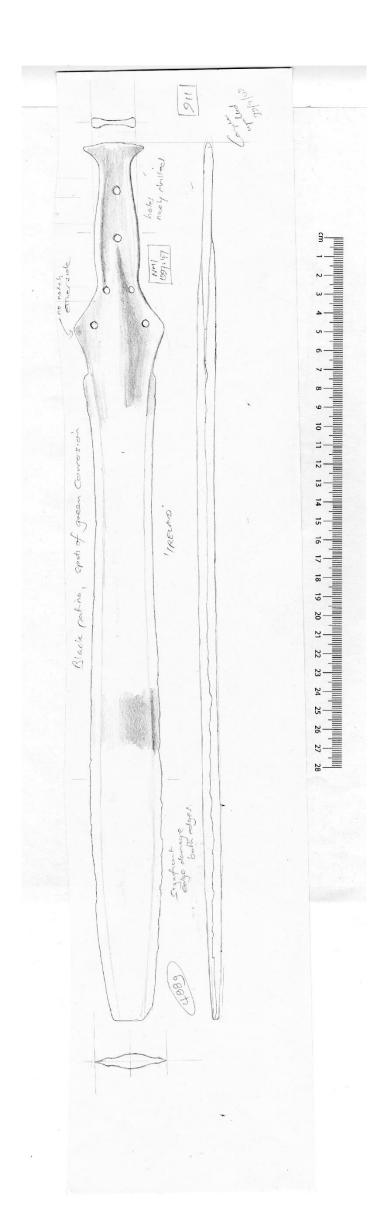






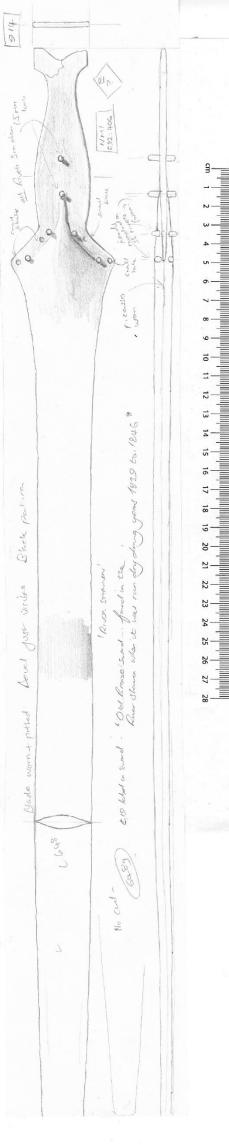


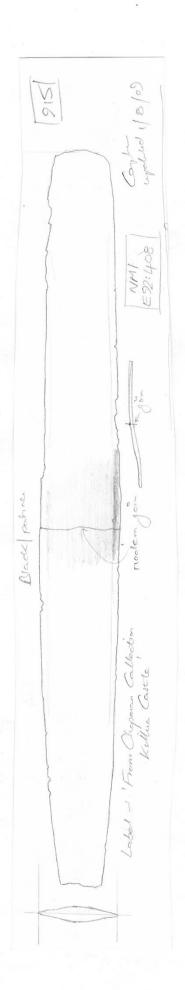


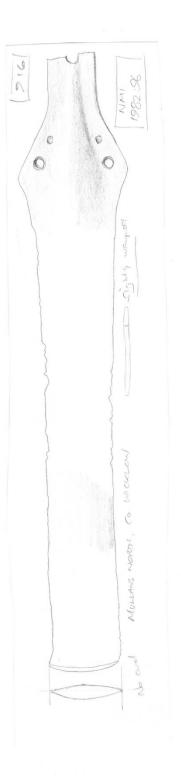




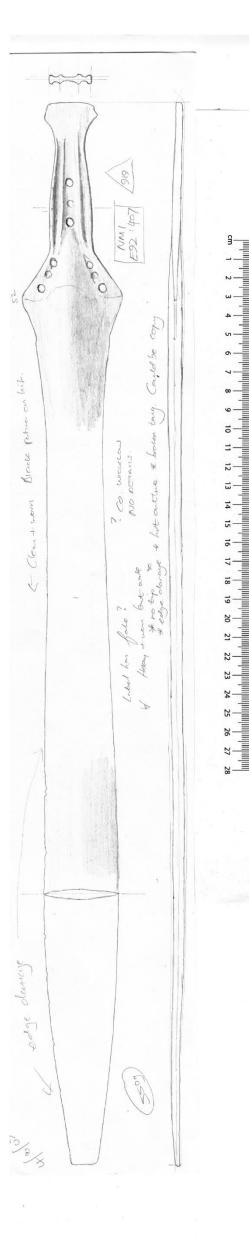


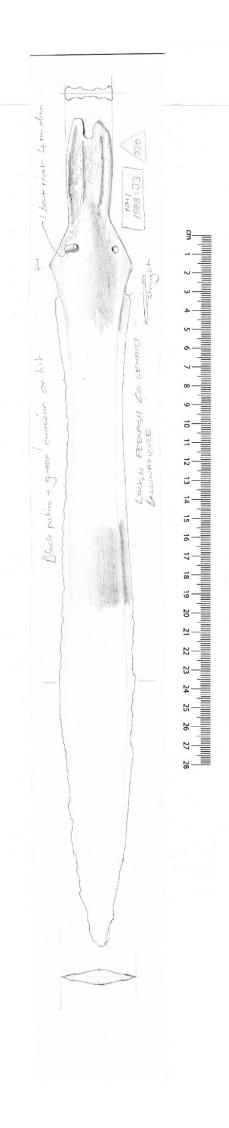


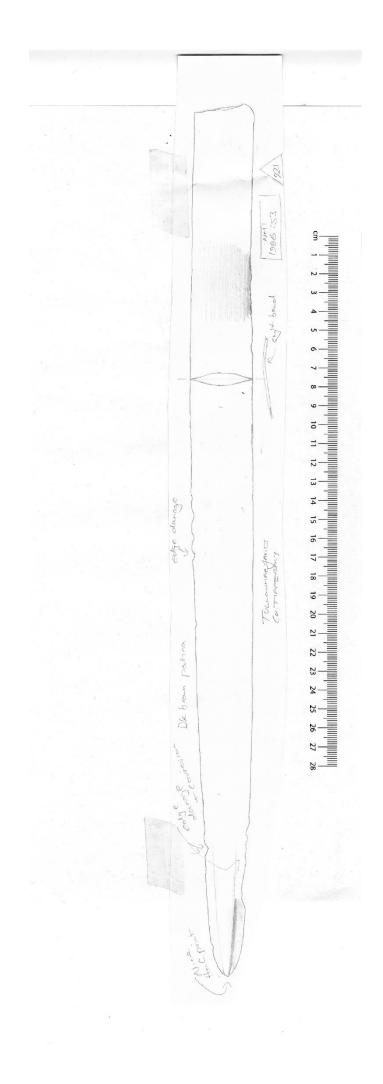


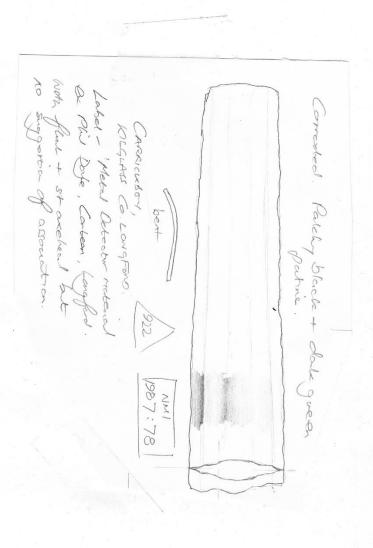


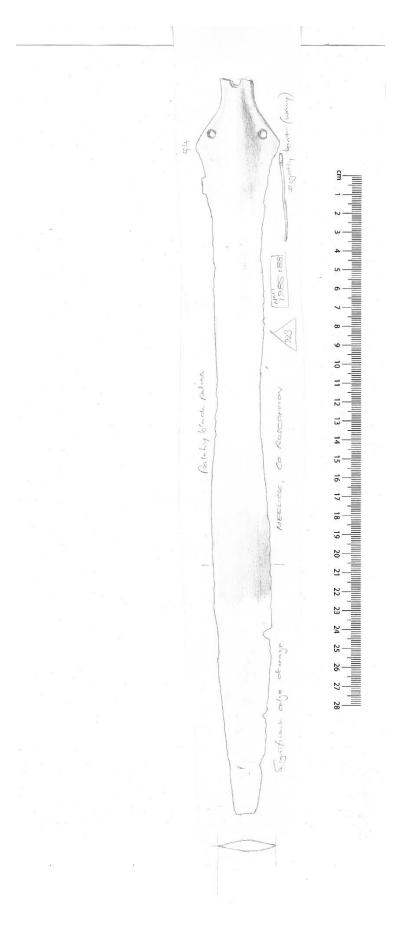


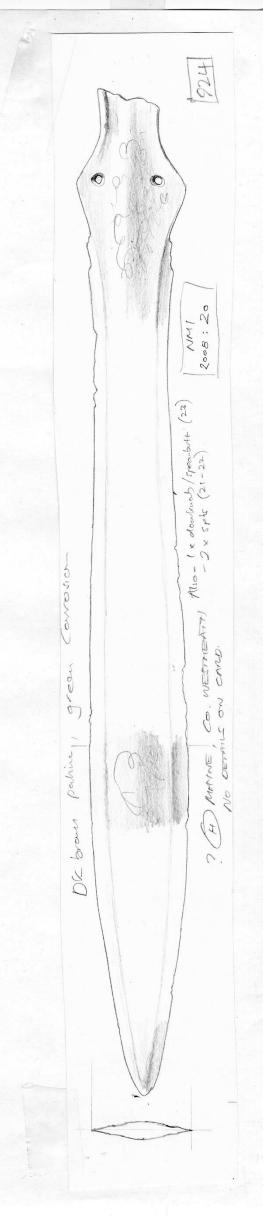


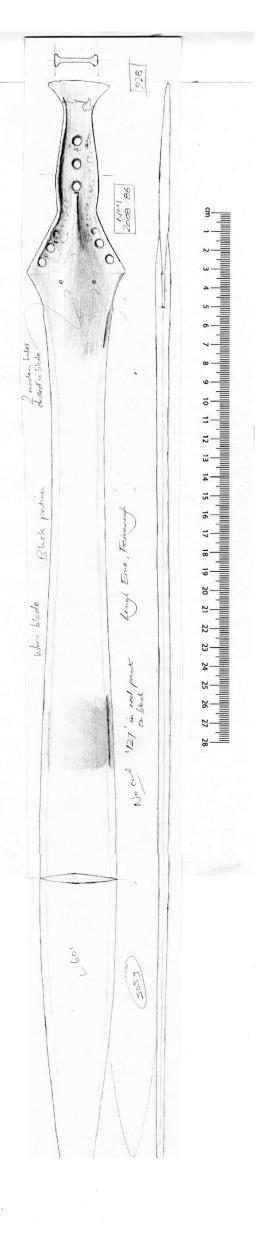


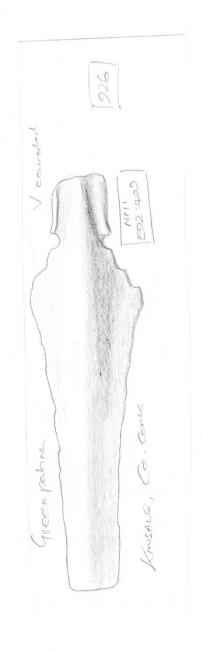


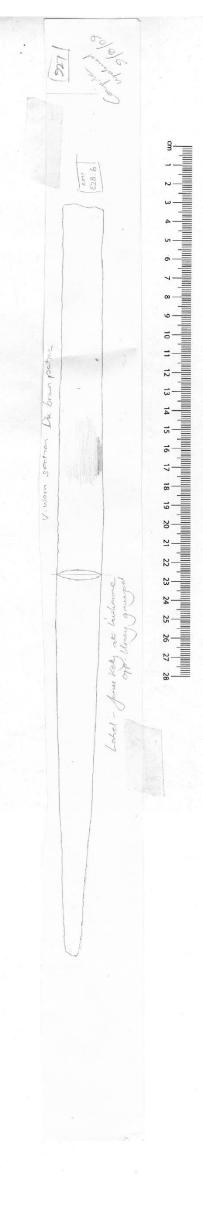


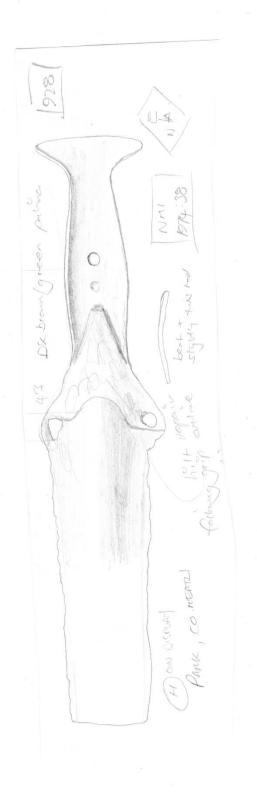


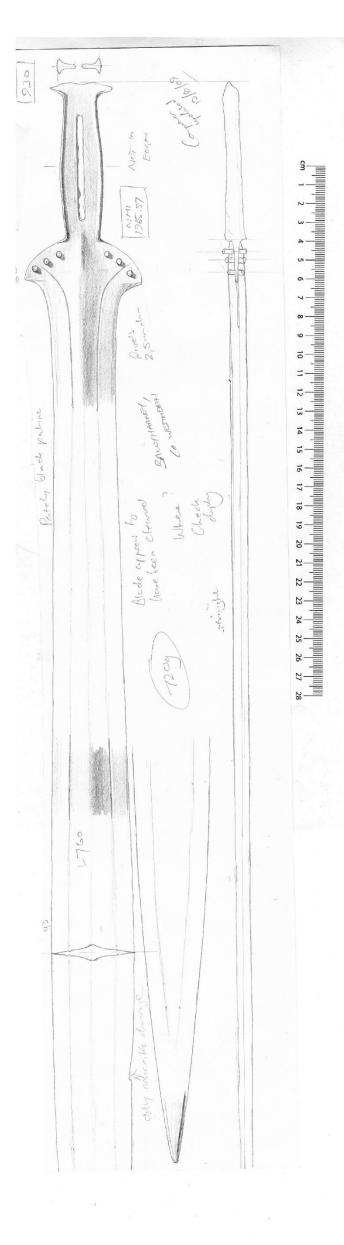


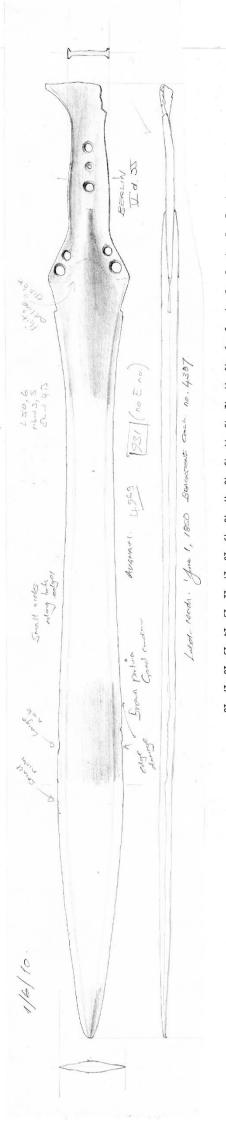


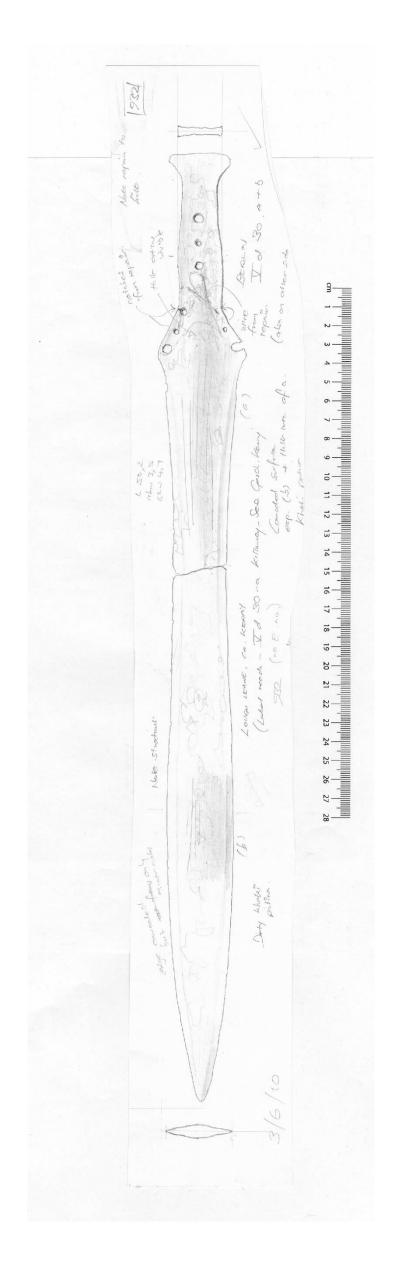


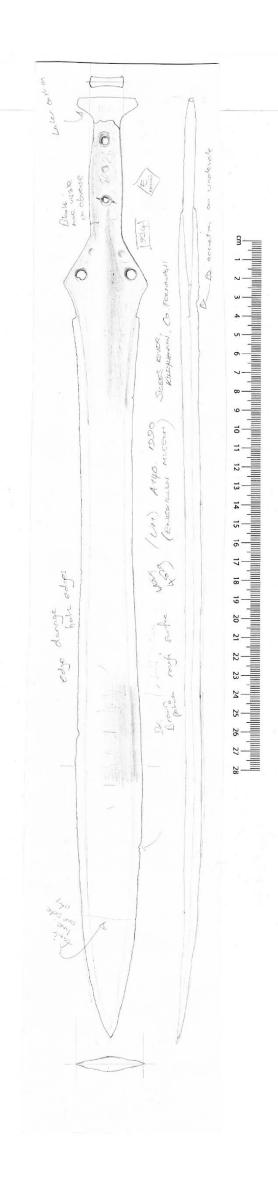


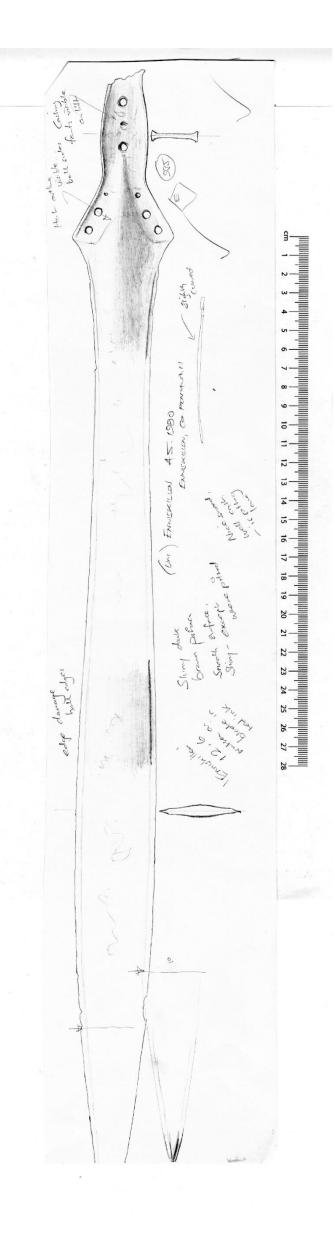


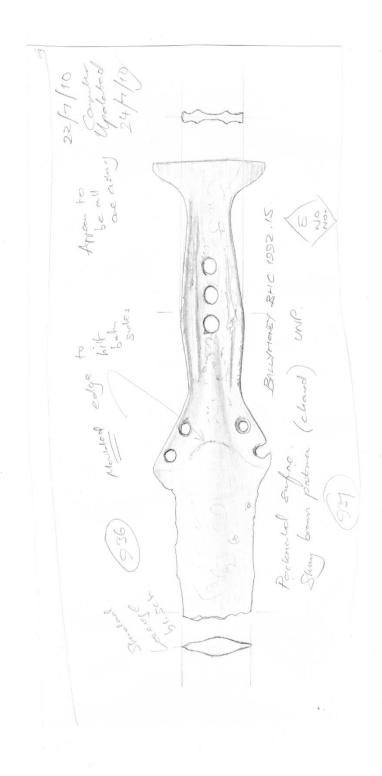


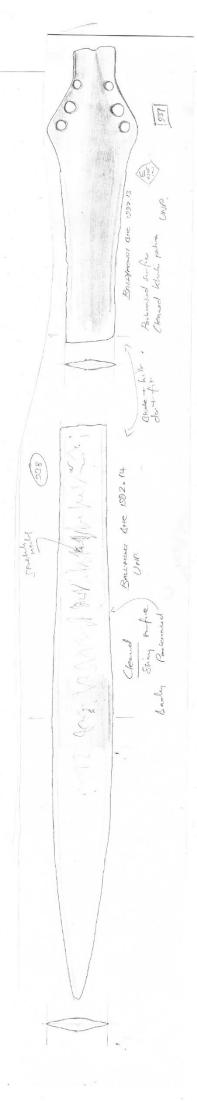


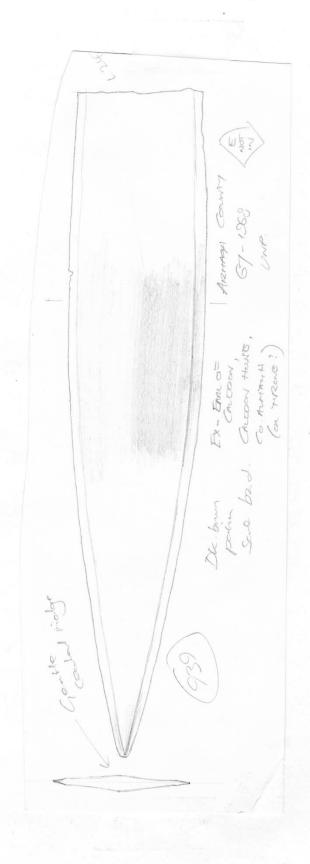


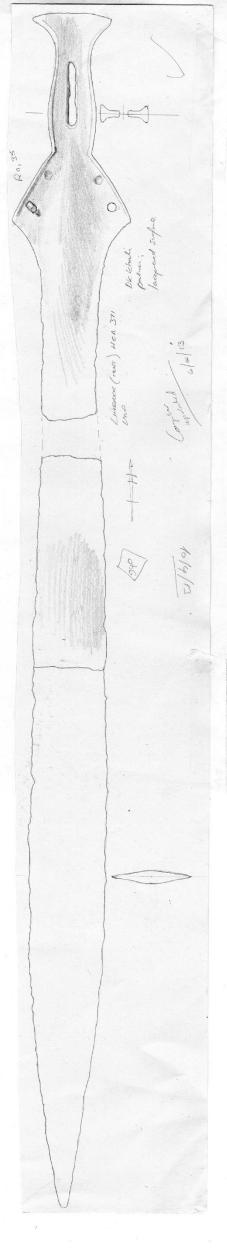


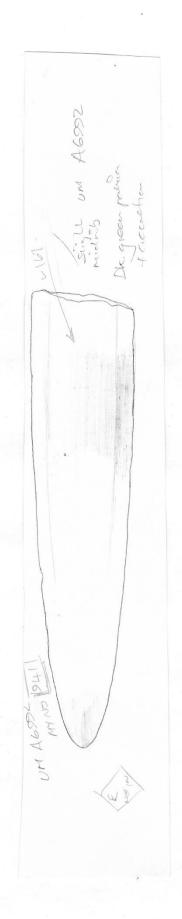


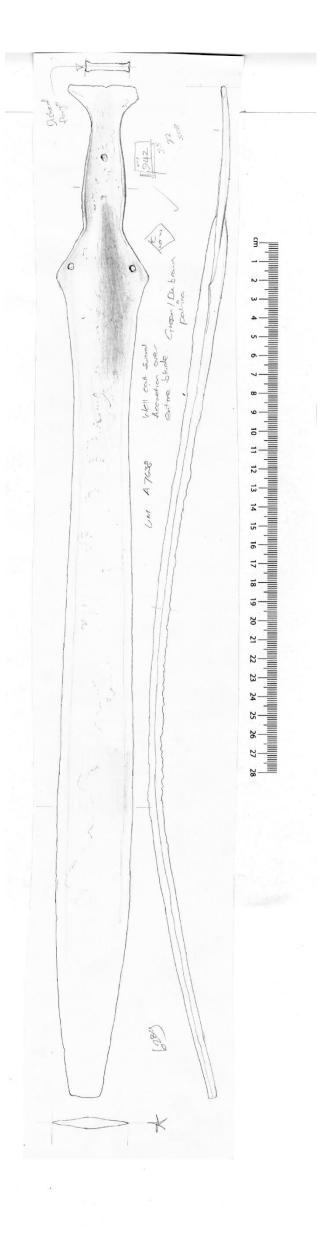


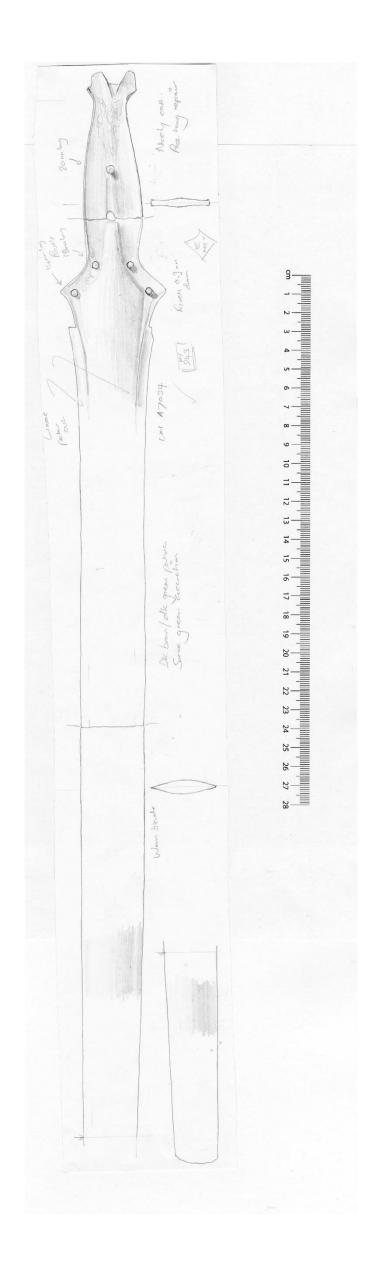




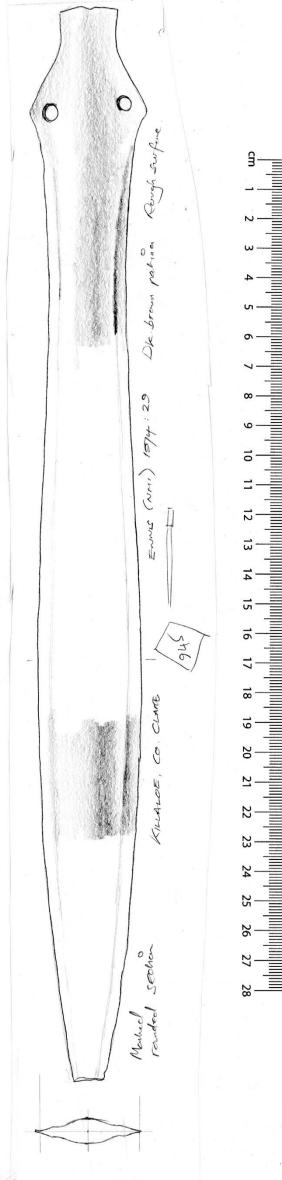


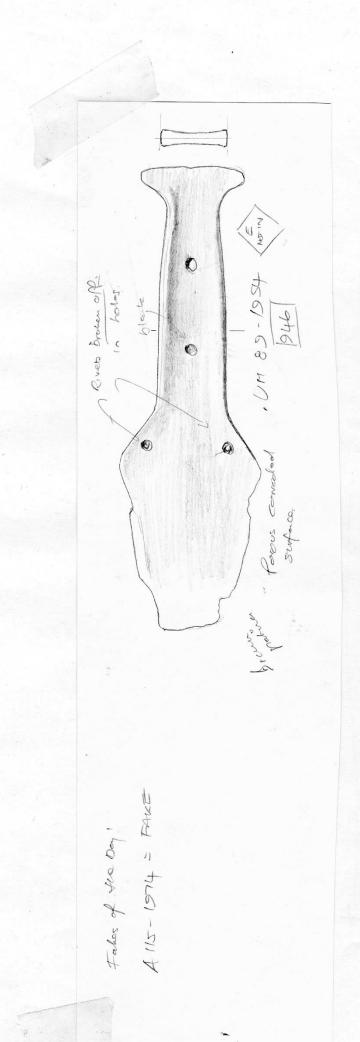


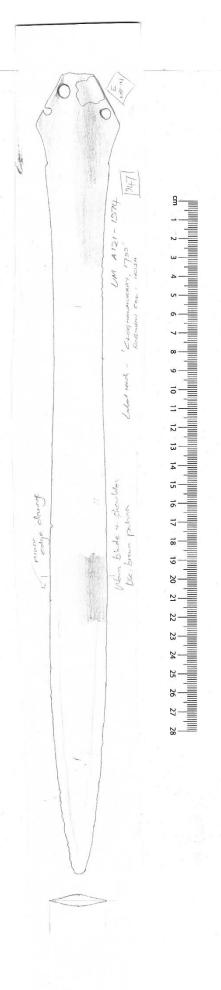


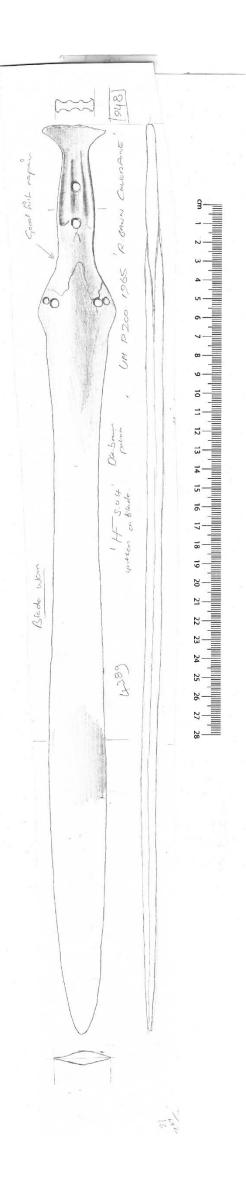


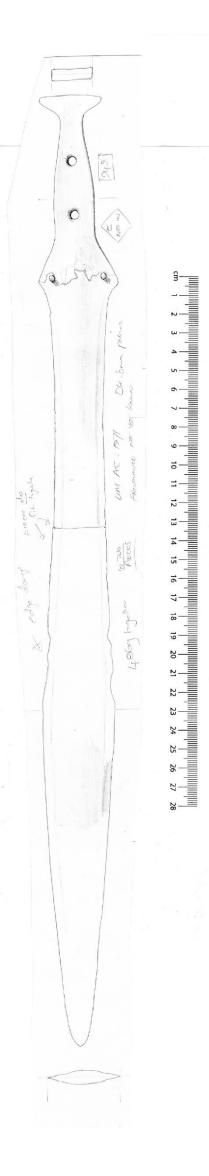


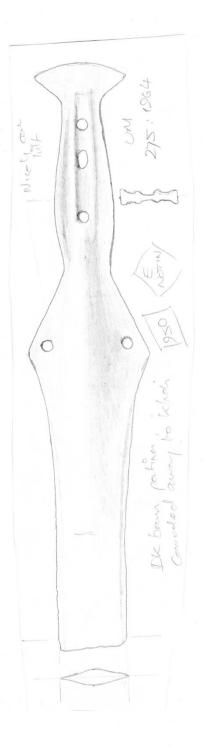


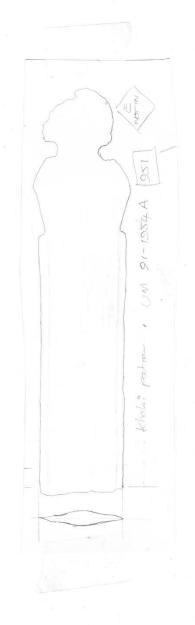


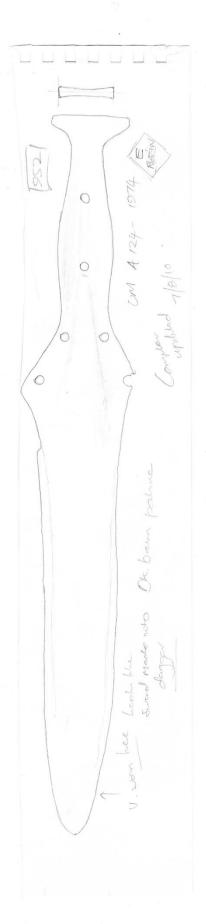


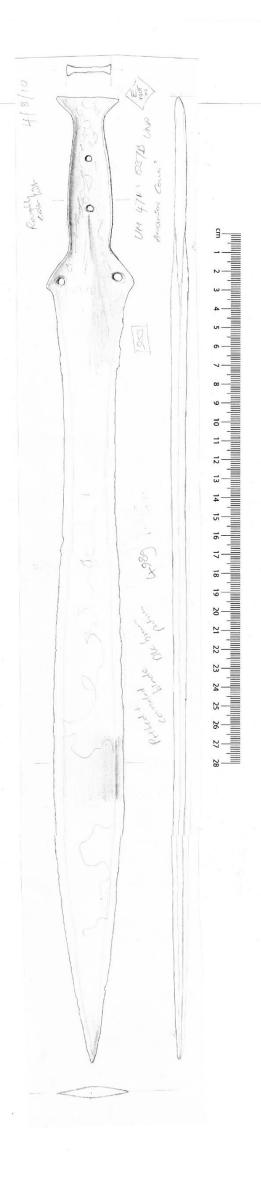




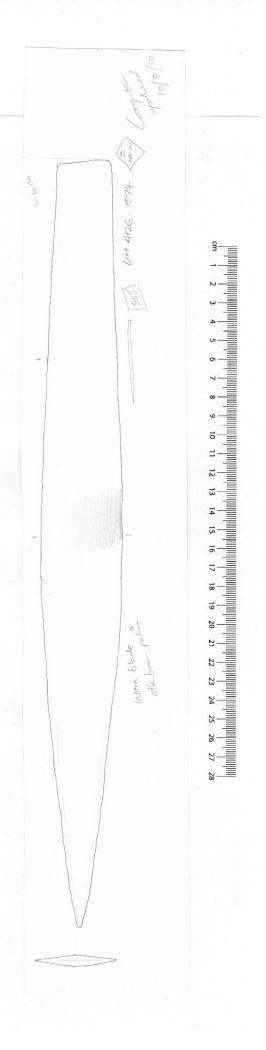


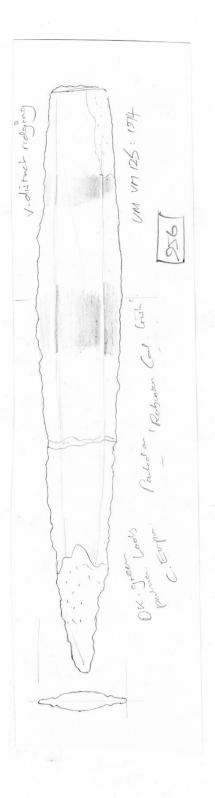


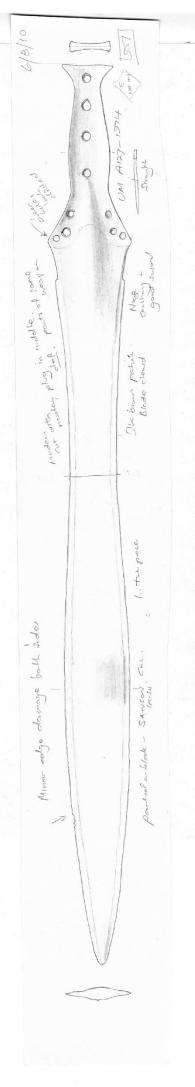


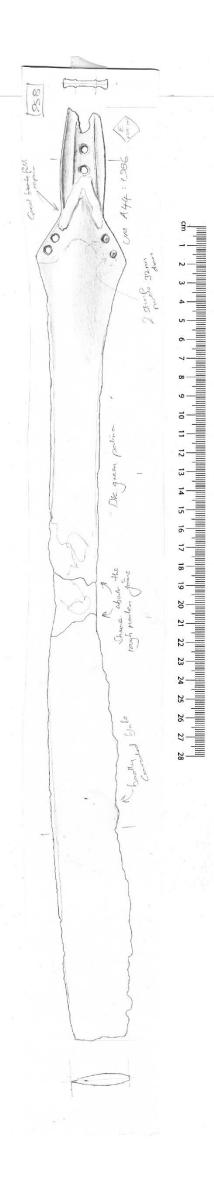


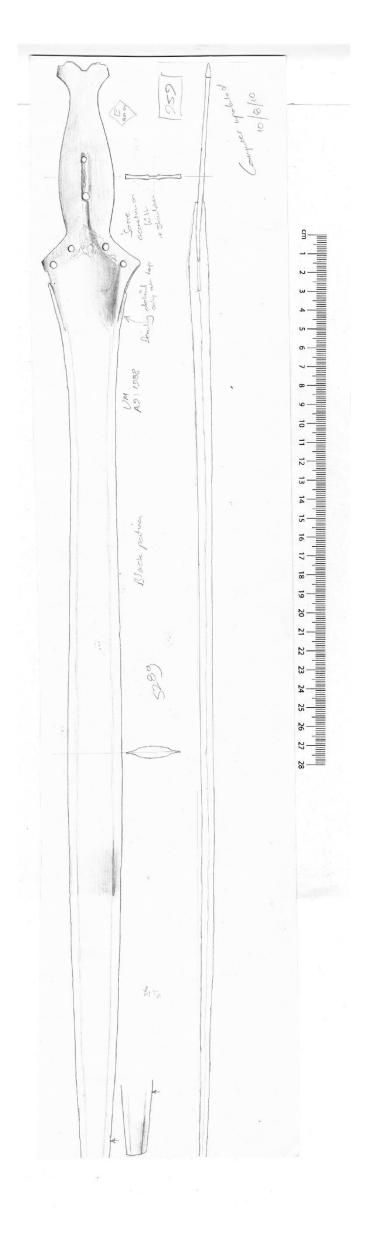


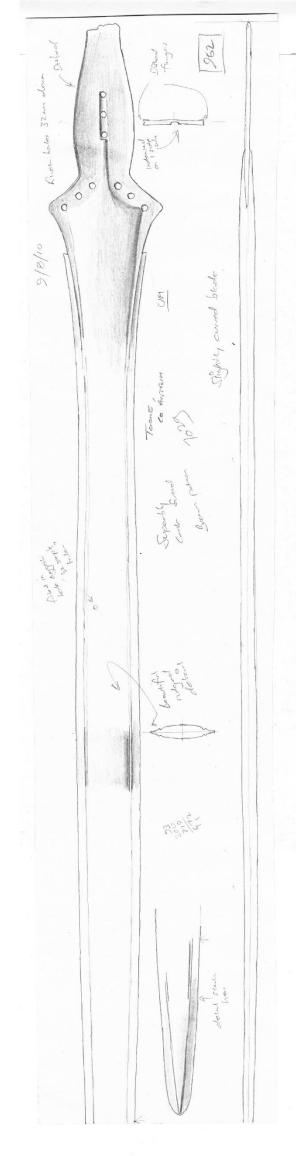


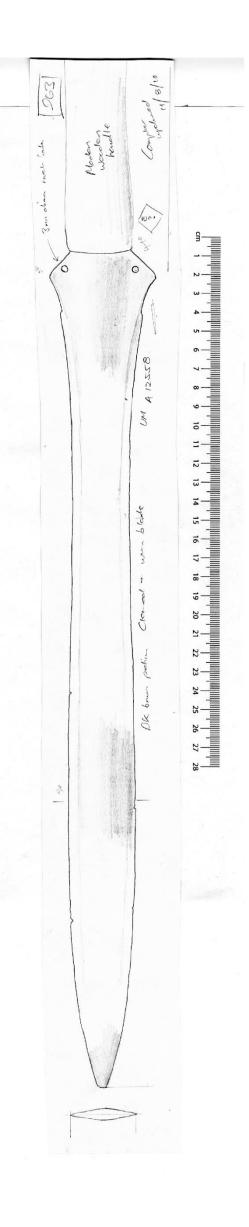


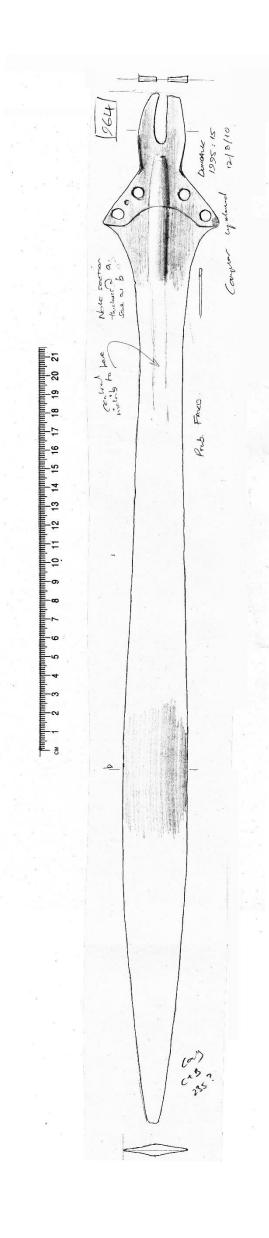


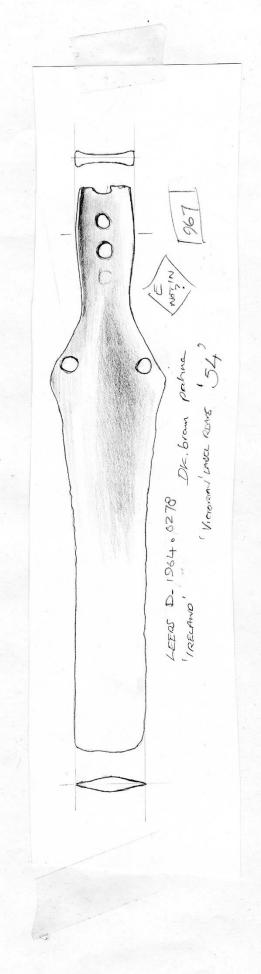


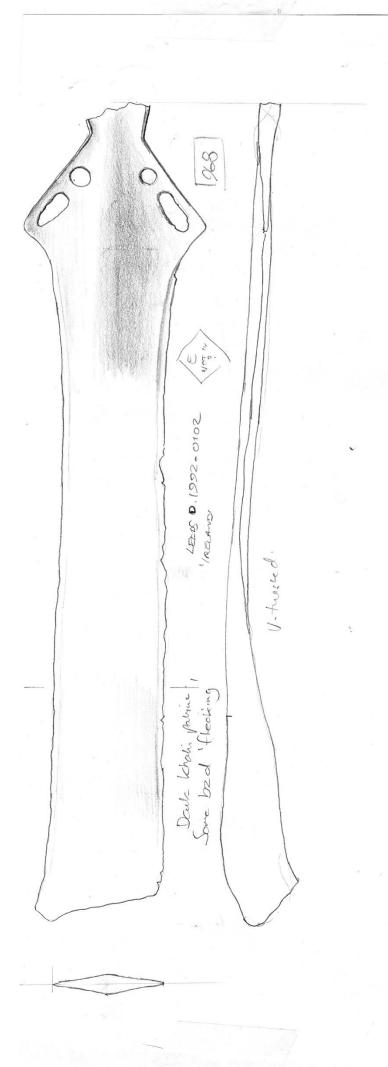


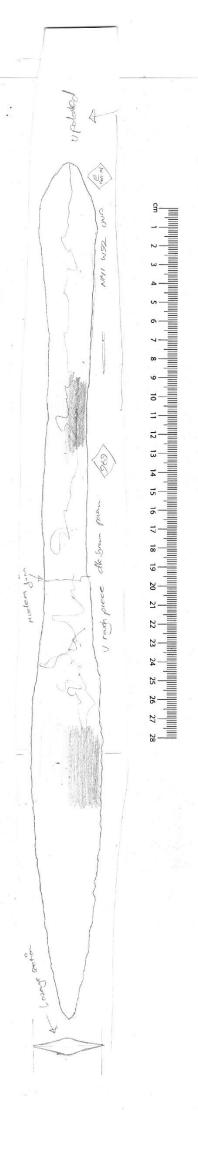


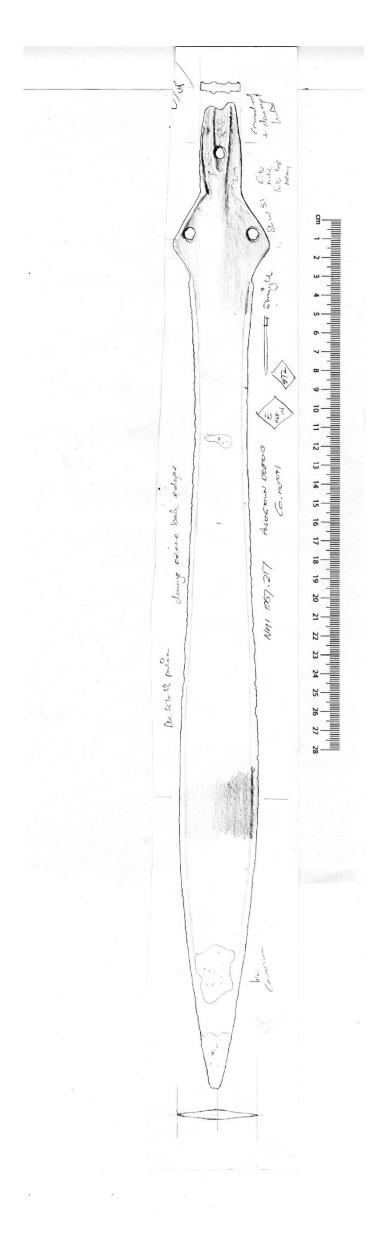


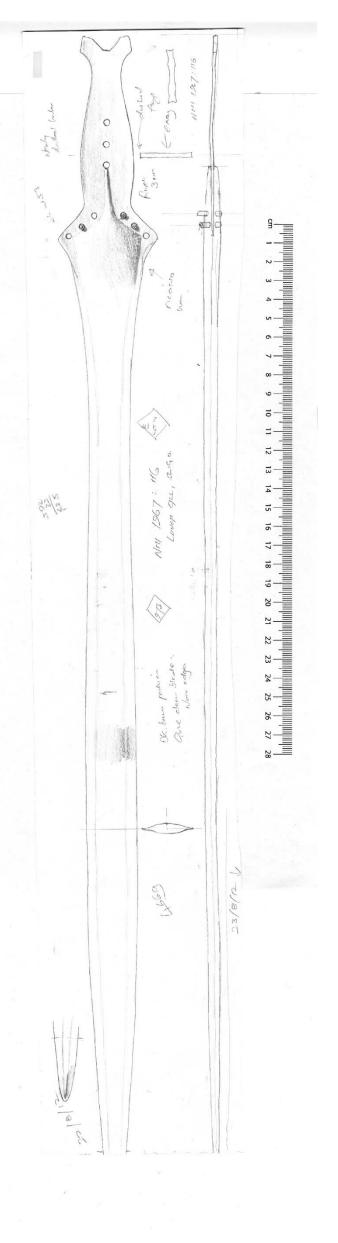




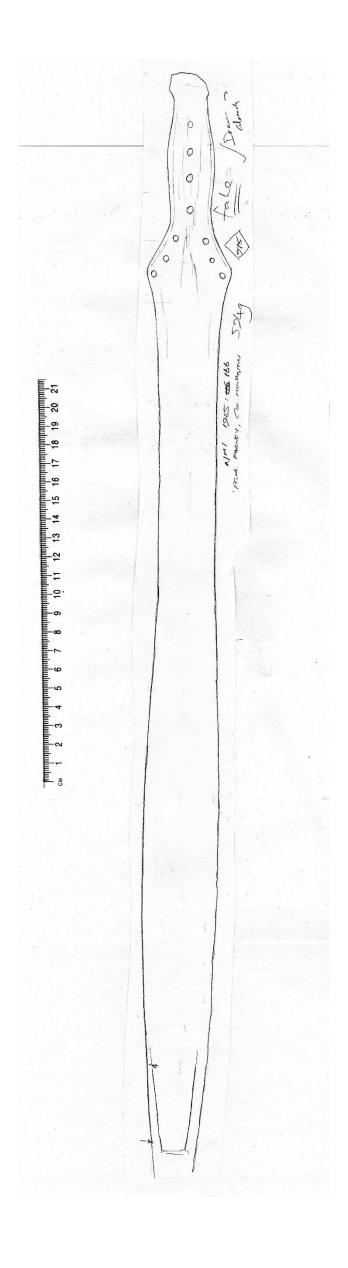




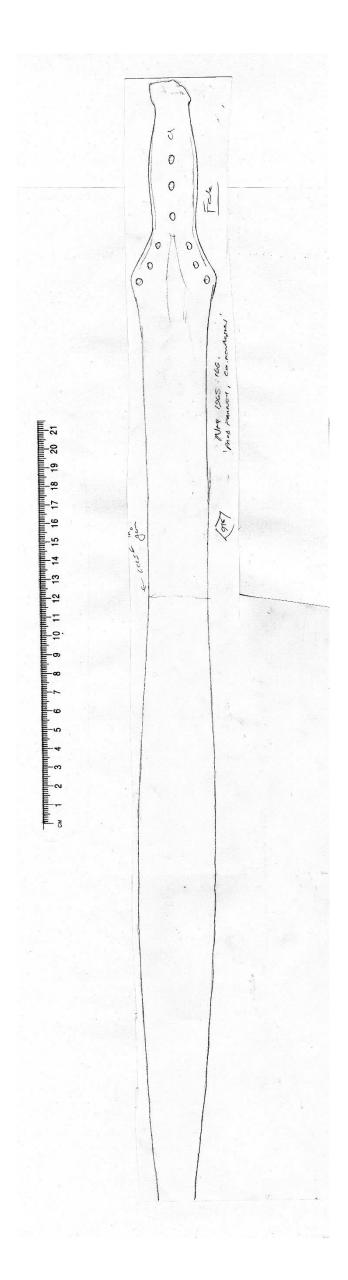






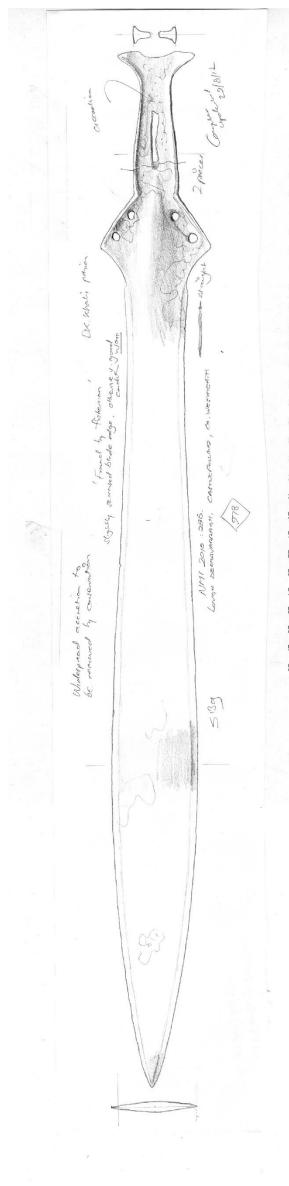


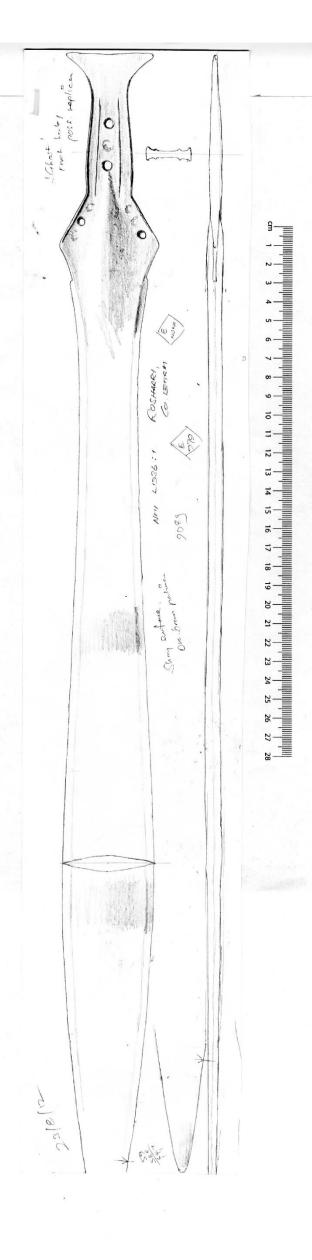
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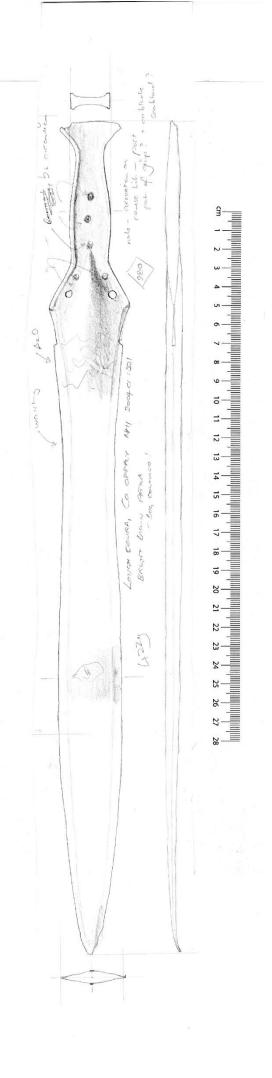




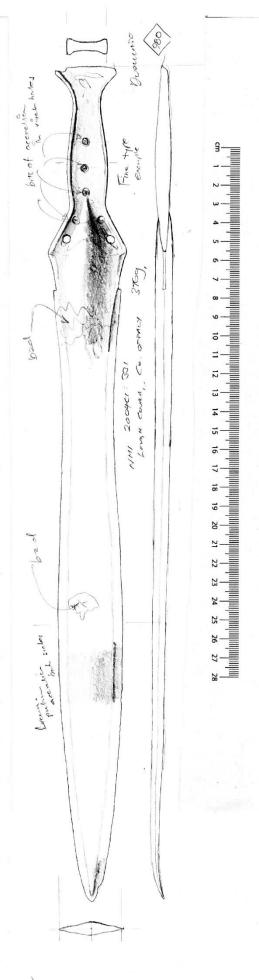




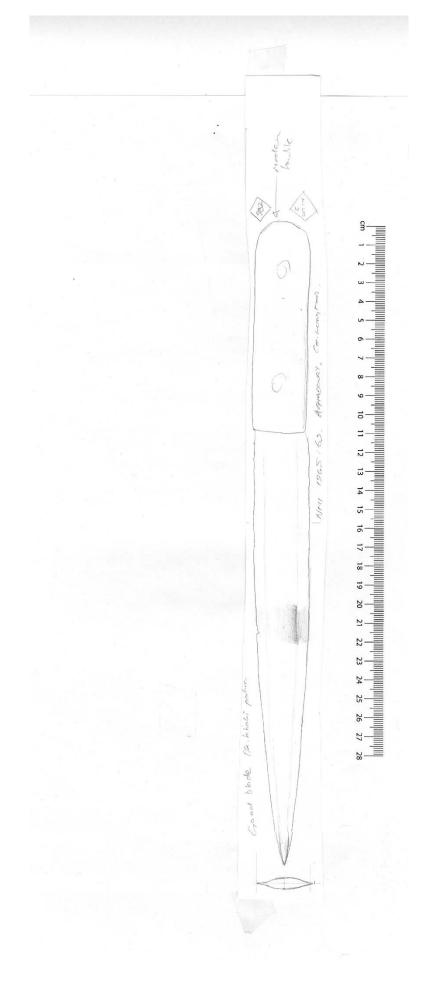


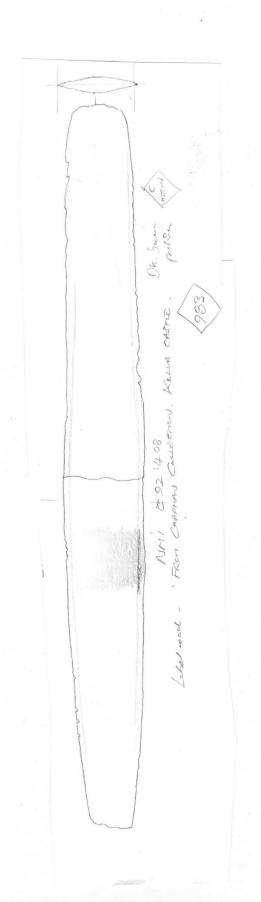


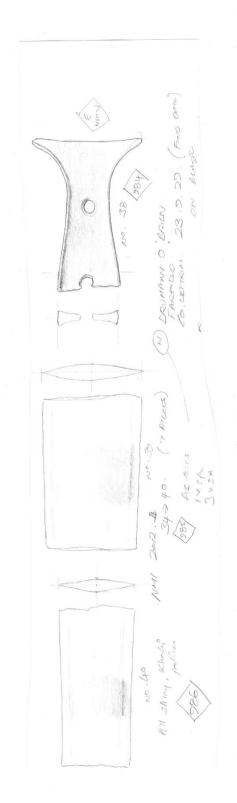
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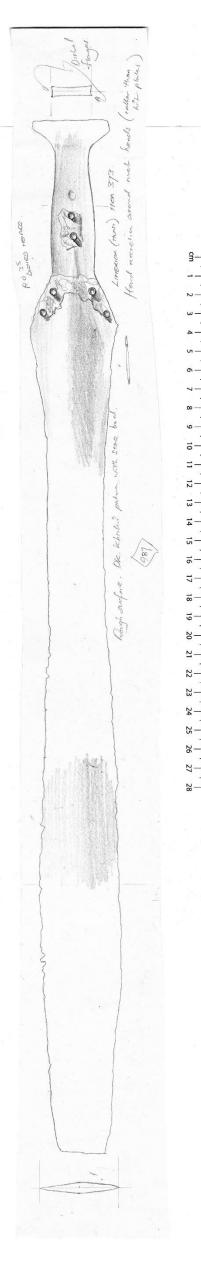


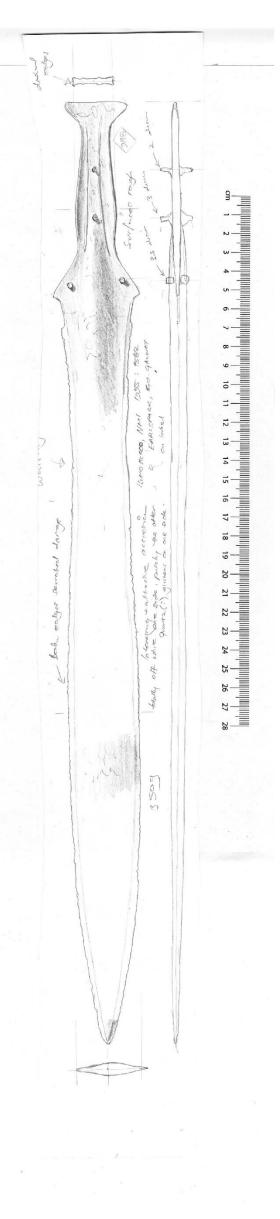


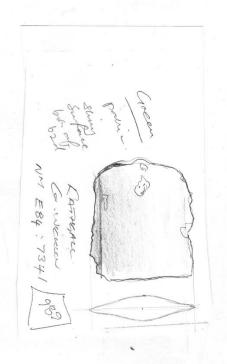


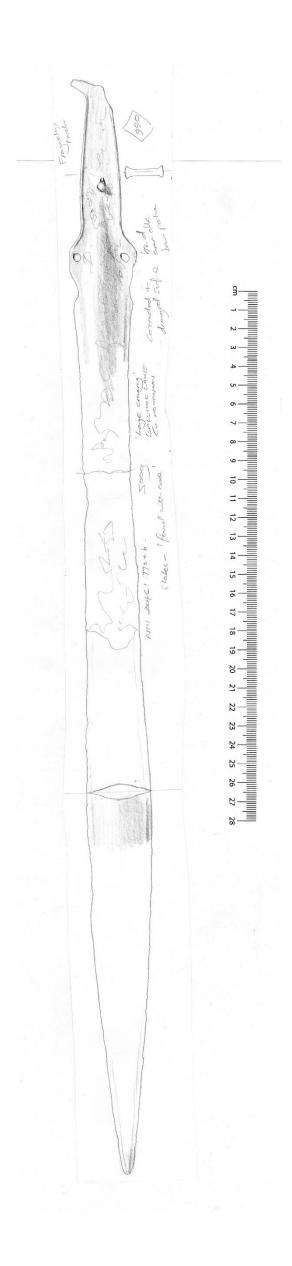


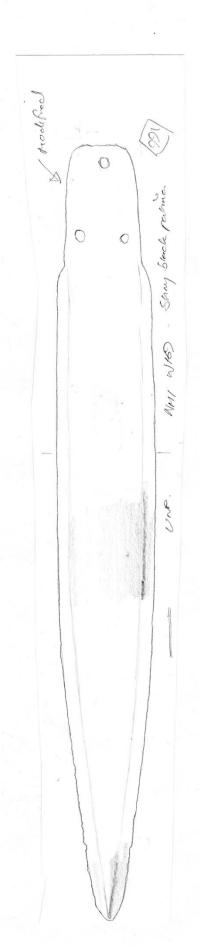


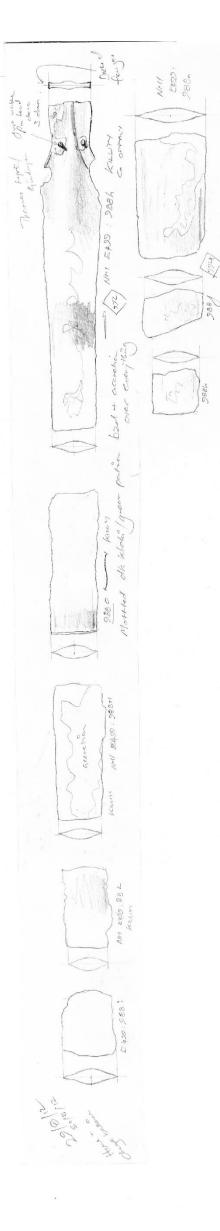


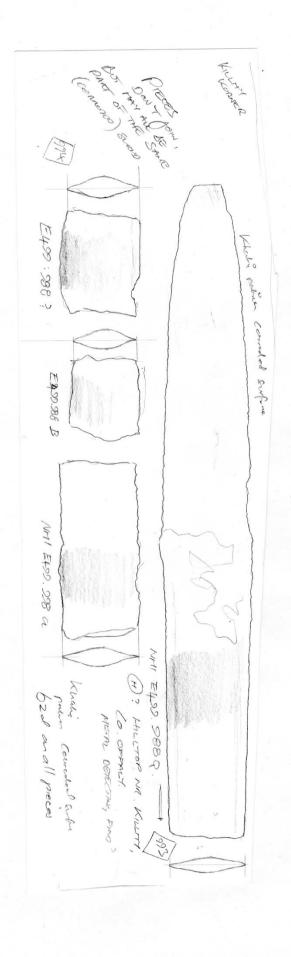


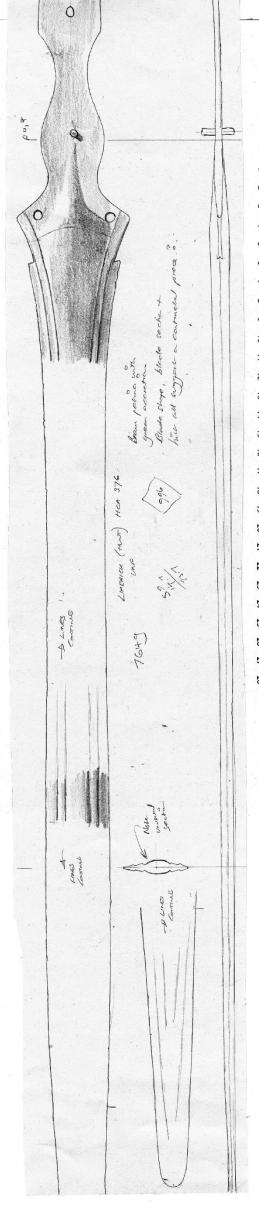


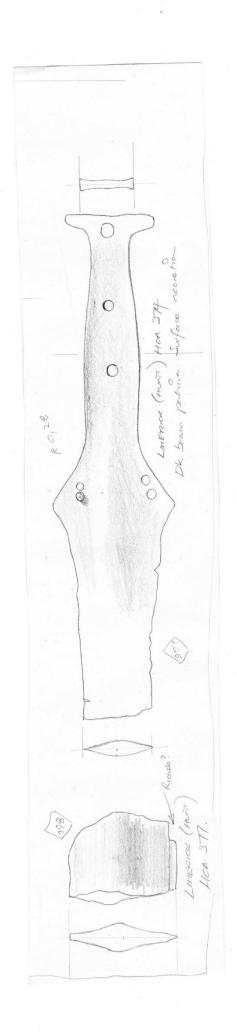


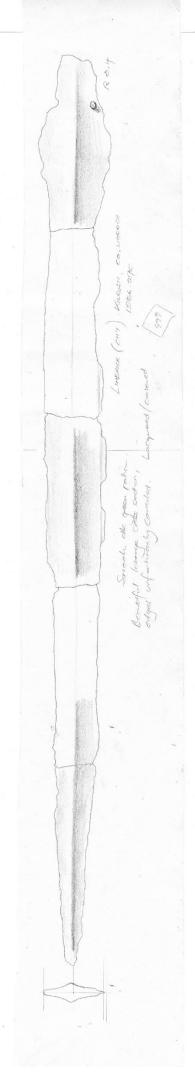




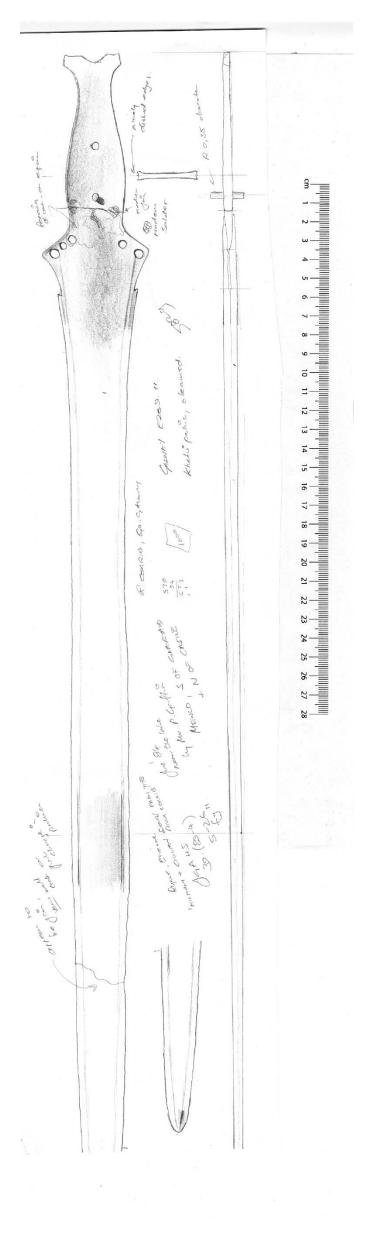


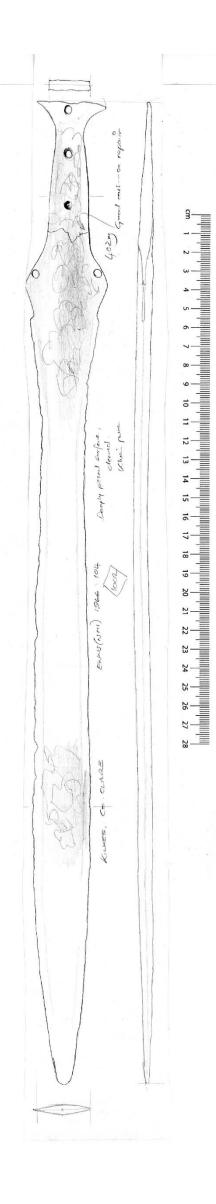






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APPENDIX C

SWORD MOULD FRAGMENTS FROM IRELAND

White Park Bay, Co Antrim (Nos 1 to 8).

Two hilt fragments, one shoulder, the rest blade. Jope (1953) has photographs of two of these fragments (one hilt and one point) in an article on the three swords from Ballycroghan. All fragments were found in the extensive dunes which line the bay, but details of the find circumstances are unknown.

Dalkey Island, Co. Dublin (Nos 9 and 10)

Both appear to be from the blade section. Found during excavations in 1959 (Liversage 1968).

Old Connaught, Co. Dublin (No 12).

This appears to be part of the blade section of a mould. According to Eogan this is the only extant example of a number of fragments found with other objects on a gravel knoll, surrounded by a broad ditch, in 1894. This may have been a burial mound.

Bohovny, Co. Fermanagh (Nos 13 and 14)

Two fragments from blade sections. According to Plunkett (1899) they were found in peat at a depth of 21 feet, associated with the remains of a crannog and possible buildings.

Lough Eskragh, Co. Tyrone (Nos 15 to 22)

All except no 22 appear to be from the blade section of moulds. No 22 may be a tang. Found during 1953 excavations of a crannog site (see also entry below for later finds).

Clay mould fragments for casting swords listed by Eogan (1965). Numbers refer to those used in his catalogue (1965, 176-179 and fig. 95).

Dun Aonghasa, Co. Galway (Waddell 2000, 218-221 and fig.91: O Faolain 2004, 180 and fig.44)

A spectacular fort built on a coastal cliff. Part of the blade section of a mould. Also found were moulds for other artefacts including spearheads, socketed axes, pins and bracelets, plus crucible fragments. All were inside a house the walls of which extended beneath the exterior wall of the fort

King's Stables, Tray, Co. Armagh (Lynne 1977 and 2008: Eogan 1993,109: Ó Faolain 2004, 176 and fig.40)

Fifteen mould fragments found in 1975 in what the excavation report describes as a 'waterlogged hollow', originally a man made embanked pond, some 25 metres in diameter. All the fragments came from the lower gravel layers of two sections dug as trenches across part of the hollow. The pond lies to the north east of Haughey's Fort within the royal complex of Emain Macha (Navan), the historical Iron Age capital of the kingdom of Ulster. All the mould fragments are for blades and have oval cross

sections of Ewart Park/Eogan Class IV type. Parts of a human skull and numerous red deer antlers were also found in the same layers

Lough Eskragh, Co. Tyrone (Williams 1978: Ó Faolain 2004, 185 and fig. 47B)

In addition to those mould fragments listed by Eogan further excavations of crannog

In addition to those mould fragments listed by Eogan further excavations of crannog structures during 1973 uncovered mould and crucible fragments, five of which were sword moulds. All came from Site B, the same site which had produced the 1953 fragments.

Rathgall, Co. Wicklow (Raftery 1971 and 1976: Ó Faolain 2004: Waddell 2000, 272 and pl. 17a)

Part of a clay bivalve mould found during Raftery's excavations of this multivallate hillfort during the 1970s. The fragment appears to be from the point side of the widest part of the blade. More than 400 weapon mould fragments were found in total, plus lumps and bars of bronze, in an area with nine large hearths near the round house in the innermost area of the fort.

Mould fragments discovered since the publication of Eogan's 1965 Catalogue