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Historic Building Recording

Site & Landscape Survey

Geophysical Survey

**Carie Hydro Scheme,
Rannoch,
Perth & Kinross**

Archaeological Mitigation Works

Report No. 3292

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**Carie Hydro Scheme,
Rannoch,
Perth & Kinross**

Archaeological Mitigation Works

Report No. 3292

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1. INTRODUCTION

1.1 General

This report presents the results of a programme of archaeological mitigation works carried out by CFA Archaeology Ltd (CFA) at Carie Hydro Scheme on the south side of Loch Rannoch, Perth & Kinross (Fig. 1). The work was carried out between February and May 2015 and was commissioned by GreenPower (Carie) Ltd.

1.2 Background

Consent has been granted for the construction of the Carie Hydro Scheme, in woodland to the south of Loch Rannoch, Perth & Kinross (between approx. NN 620540 and NN 616568). The scheme includes 4 intake structures, c.3km of pipeline, a powerhouse, and associated access tracks.

A Written Scheme of Investigation (WSI), dated 24 February 2015, was agreed in advance of works starting with the Perth & Kinross Heritage Trust (PKHT).

A desk-based assessment was included in the Environmental Statement (ES) prepared by Atmos Consulting for GreenPower (Carie) Ltd, and this report should be read in conjunction with both the ES and the WSI.

The ES chapter identified one group of structures of archaeological interest within the site boundary (Site 4) adjacent to the Carie Burn, around the location of Intake 1. Part of this site, a drystone-walled building (Site 4a), was expected to receive a direct impact as a result of the construction of the Intake. Two further structures (Sites 4b-c) were later identified as also being directly impacted.

1.3 Objectives

The objectives of the mitigation works were:

- To conduct a pre-construction survey. This comprised a rapid desk-based assessment and walkover survey of the hydro scheme prior to construction and aimed to identify any additional archaeological sites which may be present and record the baseline condition of all sites. The extent of the fencing-off and watching briefs was informed by the walkover survey.
- To fence off or demarcate sites identified in the survey as being in proximity to construction works or felling to ensure their protection: this included elements of Site 4. Felling around Site 4 was conducted in such a way as to avoid damage to the sites.
- The buildings at Intake 1, which could not be preserved in situ, required recording. Following controlled felling of the trees around and within the sites, a photographic survey of the upstanding walls was conducted and the buildings were accurately located with GPS and recorded in plan. The removal of the structures was then monitored through a watching brief.
- To report on the results.

2. WORKING METHODS

CFA Archaeology Ltd follows the Chartered Institute for Archaeologists' Code of Conduct, Standards and Guidance.

2.1 Pre-Construction Survey

A rapid desk-based assessment (DBA) using online resources was undertaken. The walkover survey was carried out pre-construction and pre-felling, and covered the extent of the infrastructure works.

The known sites, Shielings 4a and 4b and 4d, were recorded both pre-felling and post-felling through photography, written records and GPS location; Site 4d was also recorded pre-felling but this site was not affected by construction and so no further work was required. Site 4c was identified following felling and was also recorded.

Following the discovery of Site 4c, the felled wayleave around Intake 1 was also walkover surveyed, and no further sites were discovered.

2.2 Site demarcation

The three known structures comprising Sites 4a-b and d (Fig. 1) were demarcated prior to any felling activities in their vicinity. The width of the buffer zone around each site was constrained by trees but a buffer of at least 5m was used where possible. A toolbox talk was provided to the felling contractors regarding the archaeological importance of the demarcated areas and the need to fell sensitively around the demarcated areas.

2.3 Site 4 Recording

Following controlled felling of the trees around and within the site, a photographic survey of the upstanding walls was conducted of Sites 4a-c and the buildings were accurately located with GPS and recorded in plan.

A watching brief was then carried out during the controlled demolition and removal of Sites 4a-c. The buildings were removed by mechanical excavator using a smooth-bladed bucket under constant archaeological supervision, down to clean natural.

3. ARCHAEOLOGICAL RESULTS

3.1 General

The vast majority of the development site (Fig. 1) is forested with conifers. The exception to this is the northernmost section of the pipeline, closest to the Power House and the construction compound.

The area is predominantly north facing and varies between 425m AOD in the south and 250m AOD in the north. Thin peaty soils were present in the area of Intake 1 and these overlay fluvial deposits of silts, sands and gravels.

3.2 Pre-construction Survey

No additional sites were identified in the DBA.

The known shieling sites, Shielings 4a and 4b, were recorded both pre-felling and post-felling; Site 4d was also recorded pre-felling but this site was not affected by construction and so no further work was required. Site 4c was identified following felling and was also recorded.

Following the discovery of Site 4c, the felled wayleave around Intake 1 was walkover surveyed, and no further sites were discovered.

3.3 Site Demarcation

Sites 4a-b were demarcated prior to felling. Site 4a is shown in Fig. 3 and Site 4b is shown in Fig. 4.

Site 4d, to the south-east of Intake 1, was also demarcated but was unaffected by the development.

3.4 Site 4 Recording and Watching Brief

Following tree felling, survey revealed that three elements of Site 4 were affected by the development. Sites 4a and 4b were within the area of the rock armour around the intake and Site 4c lay within an area of temporary hardstanding.

The area of the intake is shown in Fig. 5 after felling, with Sites 4a and 4b visible. Site 4c is shown in Fig. 6.

Site 4a was located at NN 62041 54054. It was rectangular and measured around 5m by 3m internally and 6m by 4m overall. It was aligned SE-NW and was constructed from water-worn stones without mortar bonding. The short SE wall was best preserved (Figs. 5, 7) attaining a height of around 1.2m, with ten courses of stones. The remainder of the wall was around 0.5m high. There was no clear entrance but it was most likely in the NW end of the SW facing wall based on the wall being the least well-survived there. There was evidence of tumbling from the walls in the form of deposits of stones and turf lying close to the upstanding walls. Removal of the structure revealed no floor and no internal or underlying features.

Site 4b was located at NN 62060 54057 and was visible as low, moss-covered wall footings. It was sub-circular and measured around 5m by 3.5m internally and 6m by 7m overall. It was aligned E-W. The construction appeared to be of turf and stone (001). No regular coursing was observed save for on the south side, which consisted of four even courses, including foundation coursing. The stones were without mortar bonding and covered with topsoil (002). The structure was preserved to a general height of 0.4m. Possible entrances were recorded on the north-west and south-east sides, with the north-western more defined and less overgrown than the south-eastern. The portion of the wall between these possible entrances had some grey silt subsoil (003) present at the base of the wall. Mechanical removal of the structure revealed no floor and no internal or underlying features.

Site 4c was located at NN 62037 54072 and was visible as low, moss-covered wall footings. It was rectangular and measured around 4.5m by 2.5m internally and 6.5m by 4.2m overall. It was aligned NW-SE. The construction appeared to be of turf and stone. The walls did not have observable coursing, and were constructed of stone rubble (004). The north wall was better preserved but the south, east and west walls were in a poor state of survival, possible owing to these walls being robbed of stone for other purposes. A gap in the east wall was interpreted to be a possible entrance. In the interior of the structure close to the walls was a further deposit of stone and turf, suggesting the walls had tumbled inwards. Underlying this, a thin deposit (007) of grey and black silt subsoil suggested the remains of a collapsed and rotted thatched roof. An oval patch of burnt material (008) surrounding a fire-damaged boulder near the centre of the structure was interpreted to be a possible pit and hearthstone; upon excavation the pit survived to a depth of 0.05m and contained moderate amounts of charcoal. No other features were discovered underlying the structure upon excavation and removal.

All of the shieling structures were affected by root damage, with roots penetrating beneath the walls of the structures and across their interiors.

No artefacts were recovered.

4. CONCLUSIONS

Both the NMRS (NN65SW 1) and the Perth & Kinross SMR (MPK8904) identify a group of shielings adjacent to the Carie Burn. These are shown on the historic Ordnance Survey maps, including the First Edition (Perthshire Sheet XXXVI, 1867) and Second Edition (Perth and Clackmannan Sheet XXXVI.SE, 1900), and are shown on these maps in approximately the same location as the shielings described in this report.

The three shielings were all recorded prior to demolition and removed under a controlled watching brief. No further work is recommended.

A summary statement covering the results of this project will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 5). It will also be reported through the OASIS protocol.

The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the Royal Commission on the Ancient and Historic Monuments of Scotland (RCAHMS) and copies of reports will be lodged with the Perth & Kinross Sites and Monuments Record (SMR).

APPENDIX 1: Context Register

Context no.	Trench/Area	Fill of	Type	Description
000	All			Natural
001	Shieling 4b			Stonework of shieling 4b
002	Shieling 4b			Mud bonding of stonework of shieling 4b similar to topsoil
003	Shieling 4b			Grey subsoil in area of shieling 4b
004	Shieling 4c			Stonework of shieling 4c
005	Shieling 4c			Mud bonding of stonework of shieling 4c similar to topsoil
006	Shieling 4c			Interior tumble in shieling 4c
007	Shieling 4c			Compact grey/black silty material in shieling 4c hearth
008	Shieling 4c			Burnt charcoal/silt material in shieling 4c hearth

APPENDIX 2: Digital Photograph Register

Photo	Description	Taken From	Conditions
1	Linear Feature in woods, near picnic park at Carie		Partial Cloud/Snow
2	Linear Feature in woods, near picnic park at Carie		Partial Cloud/Snow
3	Linear Feature in woods, near picnic park at Carie		Partial Cloud/Snow
4	Linear Feature in woods, near picnic park at Carie		Partial Cloud/Snow
5	General view of area/conditions at picnic park at Carie		Overcast/Snow
6	View up forest track north-east from Carie towards forestry showing snowy conditions	NE	Overcast/Snow
7	View up forest track north-east from Carie towards forestry showing snowy conditions	NE	Overcast/Snow
8	View up forest track north-east from Carie towards forestry showing snowy conditions	NE	Overcast/Snow
9	View up forest track north-east from Carie towards forestry showing snowy conditions	NE	Overcast/Snow
10	View up forest track north-east from Carie towards forestry showing snowy conditions	NE	Overcast/Snow
11	View up forest track north-east from Carie towards forestry showing snowy conditions	NE	Overcast/Snow
12	Site 4 heavily snow covered	E	Overcast/Snow
13	Site 4a from W	W	Partial cloud
14	Site 4a from W	W	Partial cloud
15	Site 4a from W	W	Partial cloud
16	Site 4a from S with view inside structure	S	Partial cloud
17	Site 4a, S wall exterior from S	S	Partial cloud
18	Site 4a E wall exterior from E	E	Partial cloud
19	Site 4a from E, in trees	E	Partial cloud
20	Site 4a from E, in trees	E	Partial cloud
21	Site 4a from E, in trees	E	Partial cloud
22	Site 4a, interior of S wall, from N	N	Partial cloud
23	Site 4a, interior of S wall, from N	N	Partial cloud
24	Site 4a, interior of E wall, from W	W	Partial cloud
25	Site 4a, interior of N wall, from S	S	Partial cloud

Photo	Description	Taken From	Conditions
26	Site 4a, interior of N wall, from S	S	Partial cloud
27	Site 4a, exterior of N wall, from N	N	Partial cloud
28	Site 4a, exterior of N wall, from N	N	Partial cloud
29	Site 4a, exterior of N wall, from N	N	Partial cloud
30	Site 4a, exterior of N wall, from N	N	Partial cloud
31-34	View from the structure over the stream	SE	Overcast
35	Site 4a, fenced off	N	Overcast
36	Site 4a, fenced off	N	Overcast
37	Site 4a, fenced off	S	Overcast
38	Site 4b from SE	SE	Overcast
39	Site 4b from E	E	Overcast
40	Site 4b from NE	NE	Overcast
41	Site 4b from NE	NE	Overcast
42	Site 4b from N	N	Overcast
43	Site 4b from N	N	Overcast
44	Site 4b from N	N	Overcast
45	Site 4b from N, possible entrance	N	Overcast
46	Site 4b from N, possible entrance	N	Overcast
47	Site 4b from W and downslope	W	Overcast
48	Site 4b from NW, possible entrance?	NW	Overcast
49	Site 4b interior, from S	S	Overcast
50	Site 4b interior, from NW	NW	Overcast
51	Site 4b fenced off	E	Overcast
52	Site 4b fenced off	W	Overcast
53	Site 4b section of wall in SW 'corner'	NE	Overcast
54	Site 4b section of wall in SW 'corner'	NE	Overcast
55	Site 4d from NW	NW	Overcast
56	Site 4d from NW	NW	Overcast
57	Site 4d from W	W	Overcast
58	Site 4d, NE wall interior from SW	SW	Overcast
59	Site 4d, SE wall interior from NW	NW	Overcast
60	Site 4d, SE wall interior from NW	NW	Overcast
61	Site 4d, SE wall interior from NW	NW	Overcast
62	Site 4d, profile of NW wall from W	W	Overcast
63	General view of intake area 4	NW	Overcast
64	General view of intake area 4	W	Overcast
65	Drystone wall running parallel and to N of stream to intake 4, from E	E	Overcast
66	Drystone wall running parallel and to N of stream to intake 4, from N	N	Overcast
67	Section through drystone wall, part of sheepfold next to powerhouse, from N	N	Overcast
68	Section through drystone wall, part of sheepfold next to powerhouse, from N	N	Overcast
69	Section through drystone wall, part of sheepfold next to powerhouse, from N	N	Overcast
70	General shot of sheepfold, from N	N	Overcast
71	General shot of sheepfold, from N	N	Overcast
72	General shot of sheepfold, from E	E	Overcast
73	General shot of sheepfold, from S	S	Overcast
74	View across sheepfold towards powerhouse, showing machine stripping area	W	Overcast
75	Shieling 4a general view post-felling	NNE	Overcast
76	Shieling 4a general view post-felling	N	Overcast
77-78	Shieling 4a general view post-felling	ESE	Overcast
79	Shieling 4a	SSE	Overcast

Photo	Description	Taken From	Conditions
80	Shieling 4a	SW	Overcast
81	Shieling 4a	NNW	Overcast
82	Shieling 4a	NNW	Overcast
83-84	Shieling 4a general view with possible Shieling 4b beyond	W	Overcast
85	Shieling 4c to the north of Shieling 4a	WSW	Overcast
86-88	Shielings 4a and Shieling 4c beyond	S	Overcast
89-90	Shieling 4a, working shots of the section through the building and eastern wall	SSE	Overcast
91-93	Shieling 4a post-excavation views	SSE	Overcast
94	Shieling 4a post-excavation views	N	Overcast
95-96	General views of Shielding 4b in the foreground with Shieling 4a (removed) and Shieling 4c	E	Overcast
97	Shieling 4c test-pit	E	Overcast
98	Shieling 4c test-pit	NE	Overcast
99	Shieling 4c general view	SSE	Overcast
100-101	Shieling 4c general view	SW	Overcast
102	Shieling 4c	NNW	Bright
103	Shieling 4b fence restored	SW	Bright
104	Shieling 4c fenced from Shieling 4a	S	Bright
105	Shieling 4c fenced	E	Sunny
106	General view of the pipe route to the north of the Shielings 4a-c	N	Sunny
107	Shot of shieling 4c from the W showing possible entrance	W	Overcast
108	Shot of shieling 4c from the W showing possible entrance	W	Overcast
109	Photo of shieling 4c (s end) from the E	W	Overcast
110	Photo of shieling 4c from the NE	SW	Overcast
111	Shot of the interior of shieling 4c (s end) from the E	W	Overcast
112	General shot of shieling 4c	NW	Overcast
113-114	Shot of the S end of shieling 4c	N	Overcast
115	Shot of the N wall of shieling 4c from the inside	N	Raining
116	Photo of the S end of shieling 4c from the interior	SW	Raining
117	Shot of the N end of shieling 4c from the interior	N	Raining
118	Shot of shieling 4b from the W	E	Raining
119	Shot of shieling 4b from the W	E	Raining
120	Shot of the S wall of shieling 4b from the interior	S	Raining
121	Shot of the wall at the E end of shieling 4b from the interior	E	Raining
122	Shot of the N wall of shieling 4b from the interior	N	Raining
123	General shot of the interior of shieling 4b	W	Raining
124	General shot of the S wall of shieling 4b taken from outside the structure	NW	Raining
125	Shot of the S wall of shieling 4b taken from outside the structure	NE	Raining
126	Shot of the S wall of shieling 4b after moss removed. Photo taken from the interior of the structure.	SW	Raining
127	Photo of the E end of shieling 4b after moss removed. Shot taken from the interior of the structure.	W	Raining
128	Shot of the N wall of shieling 4b after moss removed.	N	Raining
129	Photo of the N wall of shieling 4b	NE	Raining
130	Photo of the W side of the n wall of shieling 4b after moss removed. Shot shows possible entrance	W	Raining
131	Shot of the W side of the n wall of shieling 4b after moss removed.	W	Raining
132	Photo showing the SW end of shieling 4b after moss removed.	SE	Raining
133	Shot of the S wall of shieling 4b after moss removed taken from outside the structure.	N	Sunny

Photo	Description	Taken From	Conditions
134-135	Shot of the S wall of shieling 4b after moss removed. Shot taken from outside the structure.	N	Overcast
136-137	Shot of the E side of shieling 4b after moss removed from wall.	NW	Overcast
138	Photo of the N wall of shieling 4b taken from outside the structure after moss removed.	S	Overcast
139-140	Photo excavating away the S wall of shieling 4c	N	Sunny
141	Shot showing the black silt layer, possibly rotted thatch material, under rubble collapse in shieling 4c.	S	Overcast
142	General shot of the removal of the S wall of shieling 4c.	S	Overcast
143	Shot showing root disturbance by trees under shieling 4c	S	Sunny
144	General shot of the removal of the W wall of shieling 4c. Photo shows lowest rubble course of wall	NW	Sunny
145-146	Shot showing removal of W wall of shieling 4c.	SW	Overcast
147	Photo of S facing section through the E wall of shieling 4c. Wall constructed on natural sands.	N	Sunny
148	Removal of lowest layers of the W wall of shieling 4c. Shot shows that the wall was bonded with topsoil at its base.	SW	Overcast
149	Shot of the N wall of shieling 4c after trees and moss removed.	E	Overcast
150	Shot of the N wall of shieling 4c after trees and moss removed.	E	Overcast
151	Section through the N wall of shieling 4c.	W	Sunny
152-155	Section through the N wall of shieling 4c.	W	Overcast
156-157	Shot of section through the N wall of shieling 4b. Wall constructed on subsoil and natural sands.	E	Overcast
158-164	General shots excavating away the interior of shieling 4b. Shots show topsoil and subsoil above natural sands.	NE	Sunny
165	Shot excavating through the E end of shieling 4b.	NE	Overcast
166	Shot showing shieling 4b after removal.	W	Sunny
167	Shot showing the site of shieling 4c after removal of walls and interior fill	S	Overcast
168	Shot of hearth feature in shieling 4c before excavation.	W	Overcast
169	Photo of hearth feature in shieling 4c after partial excavation.	W	Overcast
170	Photo of hearth feature in shieling 4c after excavation. Shot shows main burnt hearth stone.	W	Overcast
171-172	Same as previous photo.	W	Overcast

APPENDIX 3: Drawing Register

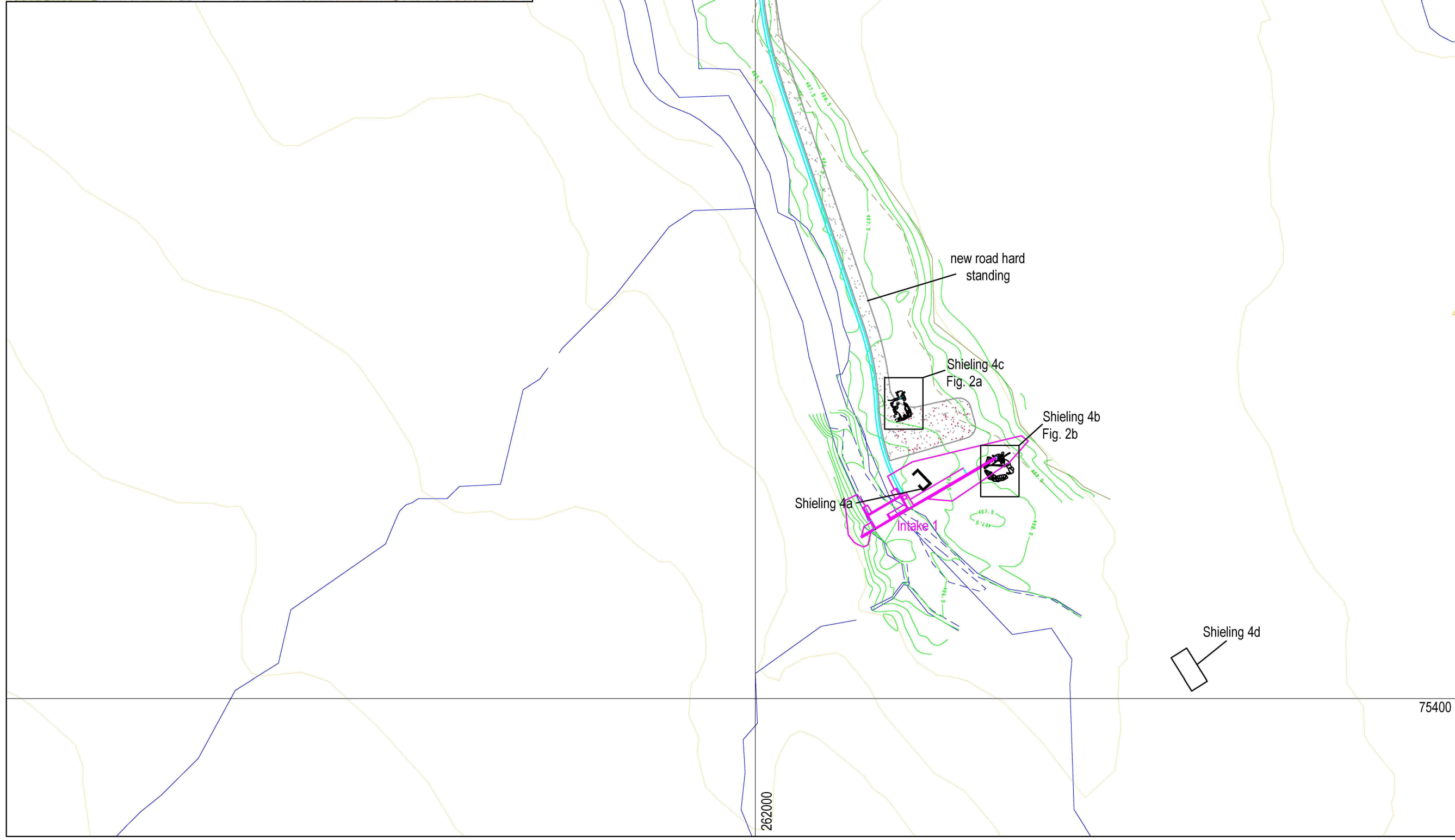
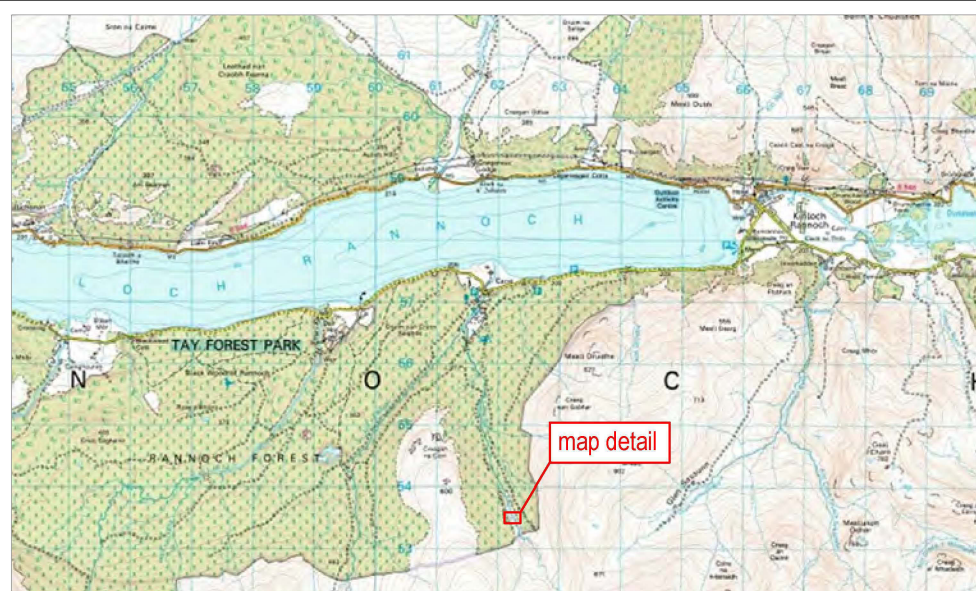
Dwg No.	Sheet No.	Scale	Plan / Section	Description/contexts
1	1	01:20	Plan	Plan of Shieling 4c
2	2	01:50	Plan	Pre-ex plan of shieling 4b
3	3	01:10	Plan	Post-ex plan of hearth in shieling 4c

APPENDIX 4: Sample Register




Sample No.	Area	Context	Sample type	Volume
1	Shieling 4c	007	Bulk	30l
2	Shieling 4c	008	Bulk	10l

APPENDIX 5: Discovery and Excavation in Scotland Entry

LOCAL AUTHORITY:	Perth & Kinross
PROJECT TITLE/SITE NAME:	Carie Hydro Scheme, Rannoch, Perthshire
PROJECT CODE:	CARI2
PARISH:	Fortingall
NAME OF CONTRIBUTOR:	Ian Suddaby
NAME OF ORGANISATION:	CFA Archaeology Ltd
TYPE(S) OF PROJECT:	Watching brief
NMRS NO(S):	NN65SW 1
SITE/MONUMENT TYPE(S):	Shielings
SIGNIFICANT FINDS:	None
NGR (2 letters, 6 figures)	NN 6204 5405
START DATE (this season)	February 2015
END DATE (this season)	May 2015
PREVIOUS WORK (incl. <i>DES</i> ref.)	None
MAIN (NARRATIVE) DESCRIPTION: (May include information from other fields)	The Carie Hydro Scheme lies on the southern side of Loch Rannoch, with much of it being located within commercial forestry. A pre-felling survey was conducted and this was followed by fencing of known sites in proximity to the development. Three drystone shieling structures, two rectangular and one sub-circular, were directly affected by the development and these were recorded prior to their controlled demolition under a watching brief. No finds were recovered.
PROPOSED FUTURE WORK:	
CAPTION(S) FOR ILLUSTRS:	None
SPONSOR OR FUNDING BODY:	GreenPower (Carie) Ltd
ADDRESS OF MAIN CONTRIBUTOR:	CFA Archaeology Ltd, Old Engine House, Eskmills Park, Musselburgh, EH21 7PQ.
EMAIL ADDRESS:	cfa@cfa-archaeology.co.uk
ARCHIVE LOCATION (intended/deposited)	Archive to be deposited in NMRS, Reports lodged with SMR and NMRS.



Key:

-  Water course
-  Pipeline
-  Intake 1 works



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Fig. No:	1	Report No:	3292
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Title:
 Location plan and site plan showing
 the location of Shielings 4 a-c at
 Intake 1

Project:
 Carie Hydro Scheme, Rannoch,
 Perth & Kinross

Client:
 Green Power (Carie) Ltd

Scale at A3:
 1:1000

Drawn by:	GC	Checked:	SW	Date:	28/05/2015
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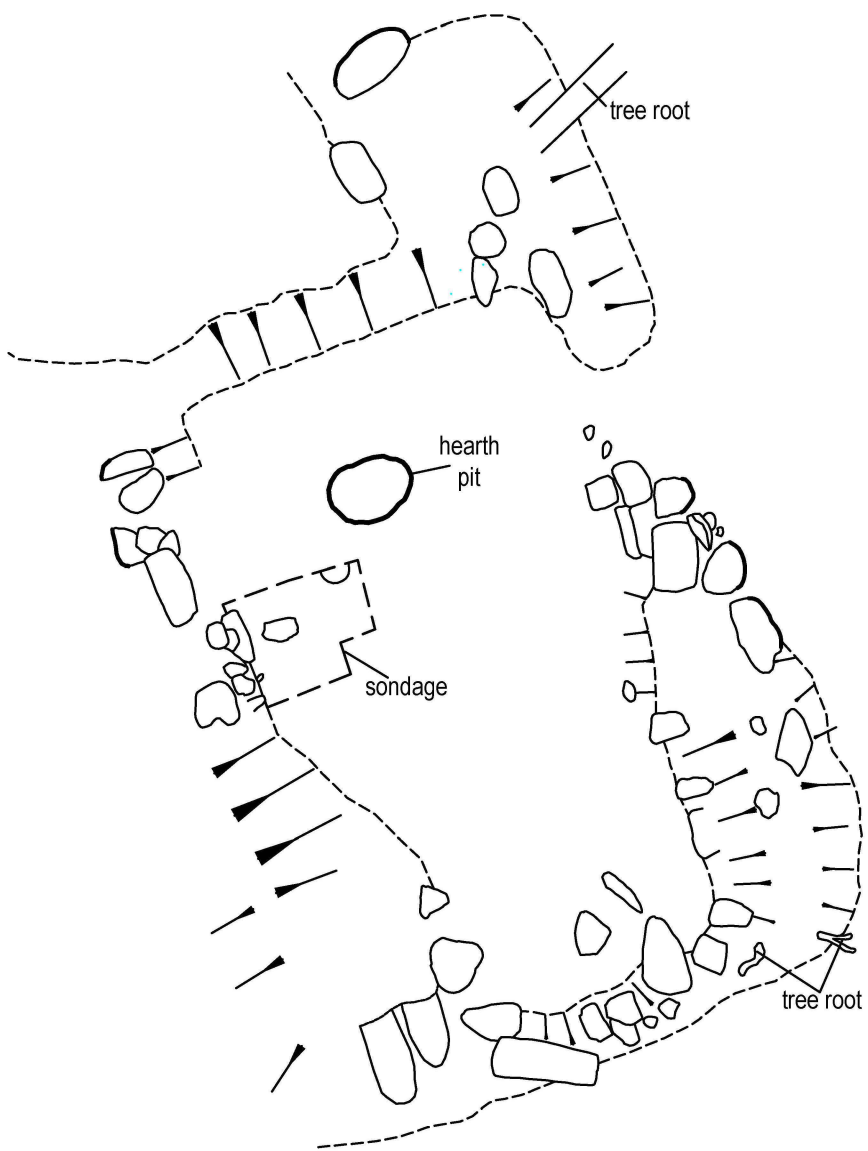


Fig. 2a Plan of Shieling 4c

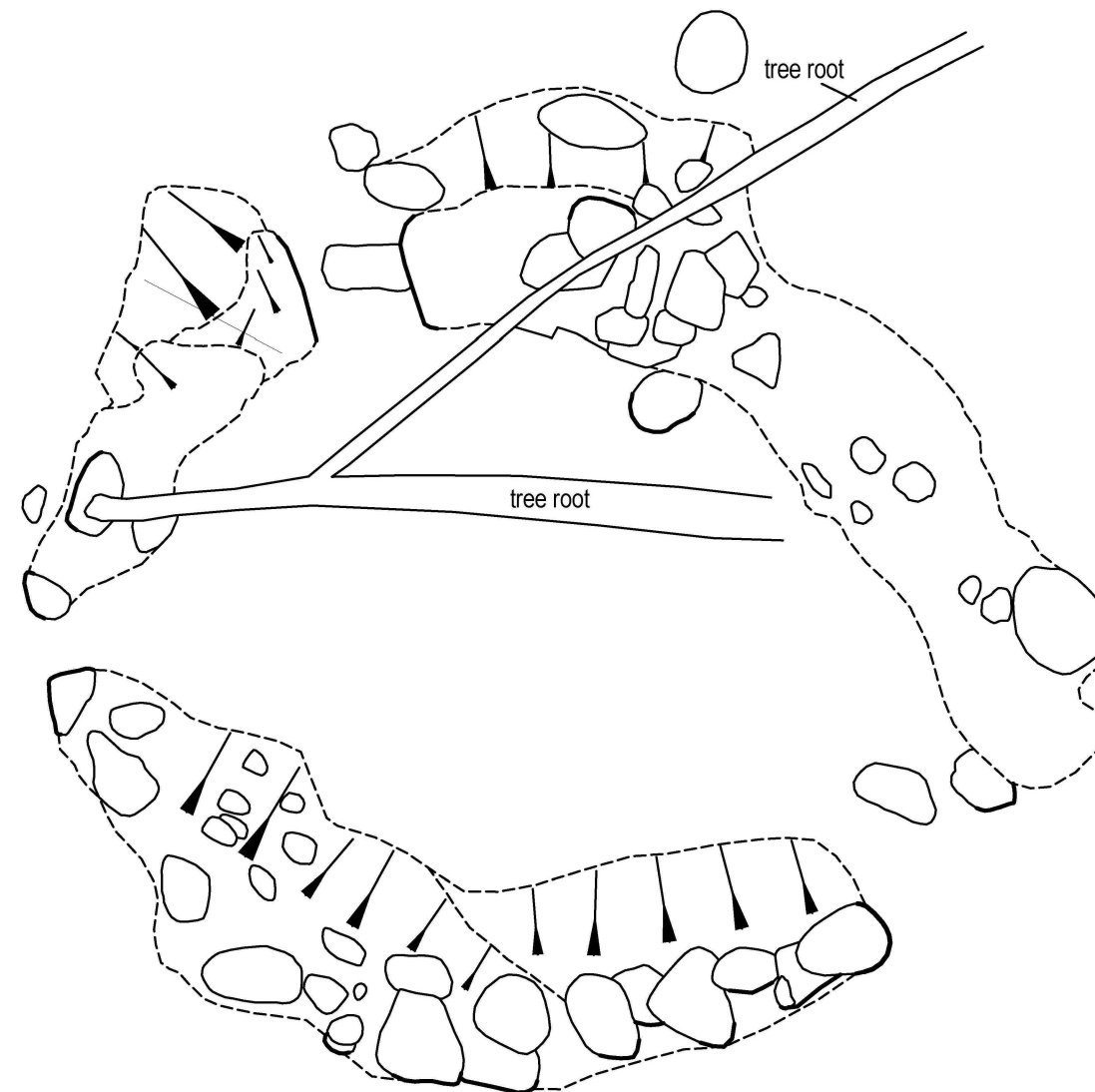


Fig. 2b Plan of Shieling 4b



Key:



Fig. No:	2a and 2b	Report No:	3292
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Title:
 Plan of the structures at Intake 1

Project:
 Carie Hydro Scheme, Rannoch,
 Perth & Kinross

Client:
 Green Power (Carie) Ltd

Scale at A3:
 1:50

Drawn by:	GC	Checked:	SW	Date:	28/05/2015
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Fig. 3 Shieling 4a prior to felling, from the west



Fig. 4 Structure 4b prior to felling, from the east



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	Client: Green Power (CARIE) Ltd				
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Fig. 5 General view of the Intake 1 area from the west post-felling. Sites 4a and 4b are just to the left of the digger



Fig. 6 General view of Shieling 4c post-felling from the south-south-east



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Fig. 7 Internal elevation of the south-east wall of Shieling 4a



Fig. 8 External elevation of the south-east wall of Structure 4b



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Fig. 9 Internal elevation of the south-west wall of Shieling 4c



Fig. 10 Possible hearth in Shieling 4c



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