



THE OLD FURNACE BUILDINGS, FURNACE FARM

HISTORIC BUILDING RECORDING AND GROUND MONITORING

commissioned by Savills on behalf of Trustees of Sir RAB Mynors, Treago Settlement

DMS/102491/F

September 2016





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PROJECT SUMMARY

Herefordshire Council issued a planning requirement for the archaeological survey and recording of two buildings at Furnace Farm to a RCHME level 2 (planning application DMS/102491/F). This work was required in advance of the conversion of the buildings to residential dwellings.

The Buildings at Furnace Farm represent a small portion of a complex of buildings that were once associated with a significant historical period of industrial iron production within the largely rural county of Herefordshire.

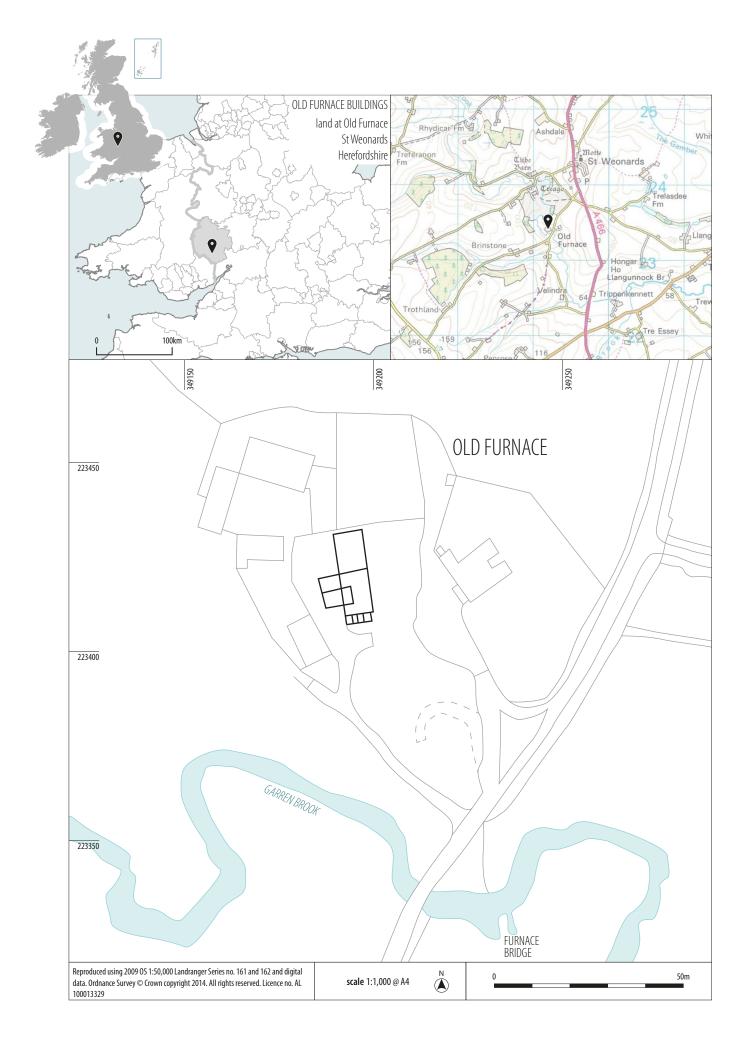
The buildings have subsequently been adapted from their original functions and now reflect their later agricultural use. From the survey results it is uncertain as to the exact function the buildings played in the manufacture of iron, but they still retain sufficient evidence to illustrate their previous use and to mark them out as different from simple agricultural buildings.

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THE OLD FURNACE BUILDINGS, FURNACE FARM

HISTORIC BUILDING RECORDING AND GROUND MONITORING

1 INTRODUCTION

A program of historic building recording and ground monitoring works was commissioned by Savills acting as Agent to the Client, Trustees of Sir RAB Mynors, Treago Settlement and conducted by Headland Archaeology (UK) Ltd. The work was required in response to a condition placed on the planning permission (Planning application DMS/102491/F) granted by Herefordshire Council for the conversion of the old furnace buildings, into separate residential accommodation within the grounds of Furnace Farm, St Weonards, Herefordshire.

The planning condition stated that the developer must secure the implementation of a program of archaeological survey and recording [to include recording of the standing fabric and any below ground deposits affected by works]. The building recording works conducted by Headland Archaeology represent the first phase towards satisfying the planning condition.

In accordance with the planning condition a Written Scheme of Investigation for the survey and recoding works was submitted and approved in writing by the local planning authority (Mayes 2013).

During a site visit on the 17th of April 2013, Headland Archaeology carried out the initial archaeological program of works, comprising survey and recording of the old furnace buildings (see Illus 1) within the grounds of Furnace Farm (NGR SO 49190 23384).

The first phase of ground monitoring work to create a new entrance into the site was conducted on 14th of September 2013 and monitored by Headland Archaeology staff. No further work has been conducted on the site in relation to the proposed development and it is understood that the intention is to sell the site with planning permission in place.

2 SITE LOCATION

The Furnace Farm building complex is situated amidst the undulating countryside on the historic Treago Estate, just to the southwest of St Weonards on the border of Monmouthshire and Herefordshire with the Garren Brook bordering the site boundary approximately 20m to the south and west (see Illus 1).

The site comprises of a range of redundant stone agricultural/industrial buildings that sit due east of the main farmhouse, within a possible man-made hollow, cut into the gently sloping south west facing side of the valley. For the purposes of this report only two of the buildings within the complex were examined.

The underlying geology is sandstone of the Brownstones Formation. This sedimentary bedrock formed approximately 398 to 416 million years ago in the Devonian Period when the local environment was dominated by rivers. No superficial deposits have been recorded at Furnace Farm, but deposits of alluvium are present within the river channels of the wider area, including the Garren Brook.

3 OBJECTIVES

The objective of the building survey was to produce annotated plans and a photographic record of the structure and gather primary and secondary historical information that would place the building in its architectural, social, and economic context.

4 METHOD

4.1 DOCUMENTARY RESEARCH

The Hereford Record Office and Hereford Library were visited, and historic maps were consulted and searched for references relating to the buildings at Furnace farm. Copies of books on local history were also consulted, although given the general nature of most of the texts there was little of direct relevance that could be obtained from the sources consulted.

4.2 GROUND MONITORING

As part of the planning conditions for the conversion of the buildings any below ground works associated with the development required that a programme of archaeological monitoring be conducted during the works.

4.3 BUILDING RECORDING

The existing building was recorded in plan, on all floors and in section by the architect; the drawings were then annotated during the building survey.

A comprehensive photographic record of the building was made, on colour transparency and black and white print, on 35 mm SLR cameras. Digital images were also taken to provide images for illustrative purposes. Appendix 1 comprises a register of all the photographs taken for the survey. Illus 6 is a plan showing the location and direction of the photos.

Archaeological and historical background

The history and significance of iron making in the county of Herefordshire and the role the furnaces at St Weonards played is detailed in a book written and researched by John van Laun 17th Century Iron Making in South West Herefordshire, which suggests that 'St Weonards furnace and Llancillo forge were probably established by the time of the Civil War as a Richard Kemble is reported as Clerk to the two concerns during the plundering of the Scots in 1643' (van Laun 1979: 55).

Referred to in an unpublished handout, the history and development of the furnace at St Weonards is closely related to the development of neighbouring furnaces, indicating a close economic connection in the production of iron within Herefordshire.

'Pontrilas Forge was established before 1623 and together with Peterchurch Forge, was held by the Hall family. In 1671 the Foley family entered upon the first of a series of agreements that were to continue until 1736 with one or more parts of the complex. Paul Foley acquired a one half share with William Hall, comprising the furnace and the three forges. By 1674 Paul Foley had taken his brother Philip into partnership with all his Forest of Dean undertakings including the St Weonards complex. It was intended to buy out Hall. In 1677/8, the value of bar iron sent from the three forges to Monmouth storehouse was over £3,000. The following year the brothers showed an interest in disengaging themselves from the complex and in 1683 went as far as drawing up an agreement with William Hall and his brother to hand back Llancillo and Pontrilas, Peterchurch having remained Hall property all along, but on lease to the Partnership. In 1692 an entirely new 'Ironworks in Partnership' was drawn up by the Foleys and the St Weonards complex was outside this. St Weonards furnace was blown out and Peterchurch and Llancillo forges continued to function drawing pig from Bishopswood and Redbrook furnaces' (van Laun 1979 unpublished hand-out available at ewyaslacy.org.uk)

The 'blowing out' of the furnace at St Weonards combined with the later closure of the Pontrillas forge resulted in a shortage of locally produced iron, this change in the supply and demand consequently led to the reinstatement of the furnace at St Weonards.

'About this time Pontrilas forge ceased operations. Because of the blowing out of St Weonards there was a shortage of locally produced pigs for the surviving forges and this led to the blowing in again of the furnace in 1706, the furnace being readmitted to the Foley Partnership soon after. Llancillo forge drew pig iron from St Weonards but remained outside the Partnership. From 1717 to1725 St Weonards was again independent. It was rebuilt in 1720 by William Rea and was carefully monitored for production after this period by the Partnership. Llancillo drew most pig iron from St Weonards and some 'cold-short' pig from Llanelly in the Clydach. In 1725 both the furnace and Llanelly forge returned to the Partnership. The furnace ceased production in 1731 and was disposed of around 1736/7' (van Laun 1979).

The history of St Weonards furnace as illustrated by John van Laun reveals that the furnace complex was part of a developing industrial landscape set within the relatively rural economy of Herefordshire, the iron works was flourishing by 1673 and was probably established at the time of the English civil war (1642), a period of decline resulted in the furnace being blown out in the late 17th century however a change in the economic outlook due to the closure of the Pontrilas forge resulted in the furnace being restarted or 'blown in' again in 1706, the furnace at St Weonards remained in use until production ceased in 1731.

5 WATCHING BRIEF

The proposed redevelopment of the Old Furnace buildings into residential accommodation has required the construction of a new entrance to the site with access from the main road.

Ground clearing excavation was conducted using a mechanical excavator and monitored by staff from Headland Archaeology. The complete road was not constructed at this stage of the works only the entrance from the highway was constructed.

The top surface was removed to a depth approximately 0.70m at the road edge grading to a depth of 0.30m, approximately 10m from the road edge. Within the makeup of the removed surface a large amount of vitrified slag was observed as well as the remains of a boundary wall that was apparently washed away in the floods of 1967 (pers comm). During the ground monitoring for the construction of the new highway entrance no datable finds were observed.

6 BUILDING SURVEY

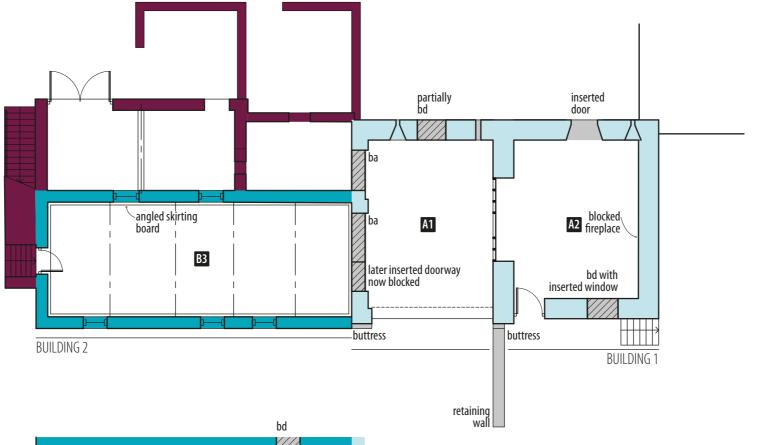
The study buildings at Furnace farm form a small complex within a large hollow that is either naturally formed or has been enhanced or created by the large amounts of iron working waste products that have been dumped within the vicinity of the buildings.

The study buildings currently form part of what was once a working farm, in 2001 the complex consisted eleven barns and sheds, but by 2014 only six remained, the change of use and subsequent development of the site has resulted in the original iron working complex being masked within and by the adaptation of the remaining buildings.

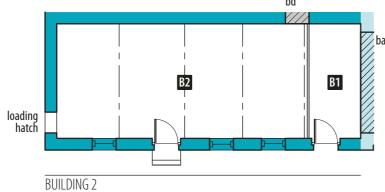
Three main phases of construction were identified (Illus 2–5), Building 1 being the earliest, with Building 2 added to its south end and later extended to the west.

building <

GROUND FLOOR PLAN



LOWER GROUND FLOOR PLAN



BUILDING 2

OUTBUILDINGS

ILLUS 2 Plan showing main phases of construction

scale 1:150 @ A3

CONSTRUCTION PHASES

phase 1 phase 2

phase 3

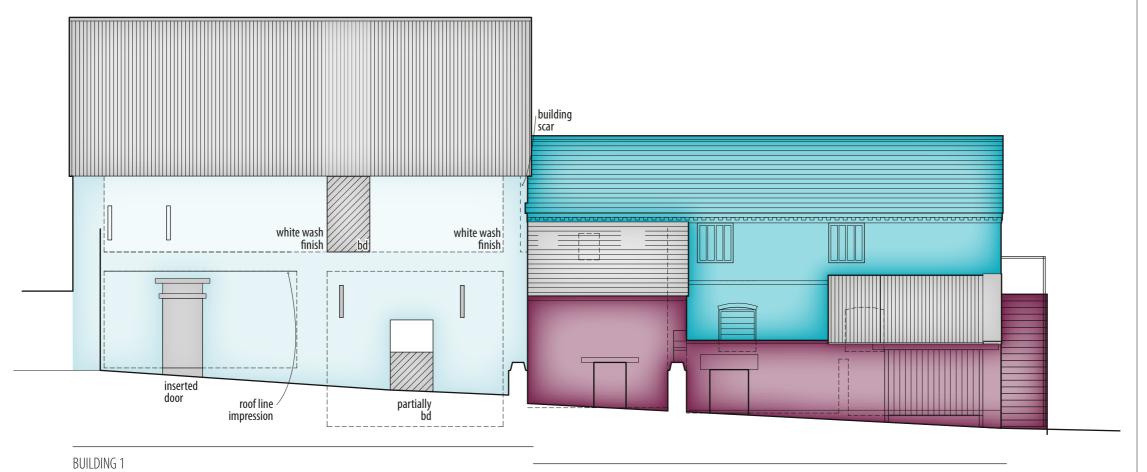
blocked arch

undated alterations blocked window blocked doorway



construction phases
phase 1
phase 2
phase 3
undated alterations
bw blocked window
bd blocked doorway

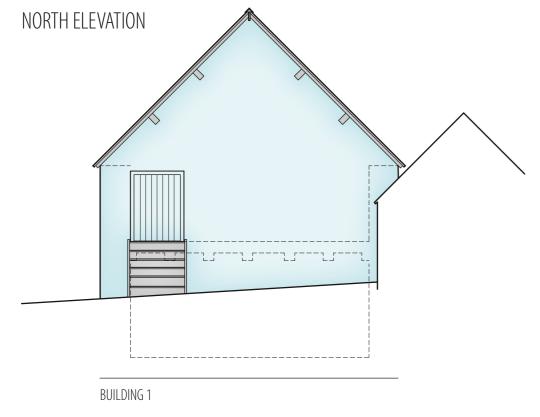
scale 1:100 @ A3



8.00m AOD BUILDING 2







8.00m AOD



BUILDING 2

CONSTRUCTION PHASES

phase 1
phase 2
phase 3

undated alterationsbw blocked windowbd blocked doorway

scale 1:100 @ A3





ILLUS 6 Plan showing photo directions



ILLUS 7 View of original mortar (135) **ILLUS 8** Projecting masonry in the north wall of Building 1 (049) **ILLUS 9** Buttress and retaining wall, indicating the location of a possible demolished building (128)

6.1 BUILDING 1

Summary

Building 1 is a two storey rectangular structure aligned north south and cut into the hill side resulting in the ground floor levels rising from 9.60m to 11.155m (site TBM) a difference of 1.55m north-south. The building has been re-roofed in black corrugated iron sheet. The building abuts Building 2 on the southern gable and is attached to another building (not part of the planning application) at the northwest corner (Illus 2).

The building is constructed in rough-hewn sand stone blocks of various dimensions and shapes, with an attempt to follow a levelled coursing albeit highly dependent on stone dimensions and shapes. Various stages of re-pointing have been undertaken, resulting in the external finish of the building being flush pointed with a mixture of cut back or weather joints. The style and abundance of flush pointing gives the building an impression of having an external render or white wash finish in places. The original mortar is red/pink colour, granular in appearance, containing inclusions of very small and small white flecks (0.01–0.04mm), where the mortar has been exposed to the elements it is relatively soft and crumbly (Illus 7).

North elevation

Due to its positioning within the north-south slope, access to the upper floor of Building 1 was facilitated by an external wooden staircase of three flights, now in a derelict state (Illus 5).

At approximately the same height as the doorstep the north elevation steps out from the building line by approximately 0.15m, this may be an indication that a now demolished building or raised platform was once formed part of the northern elevation.

East elevation

The east elevation of Building 1 contains a large open arched entrance which allows access into the ground floor, the slope of the hillside allows this part of the building to have a double height ceiling (Illus 3). To the north of the elevation a straight cut segmental arch window and doorway provide light and access to the ground floor room, respectively.

The main arch and doorway are divided at ground level by the construction of a buttress rising to the height of the segmental arch of the doorway. The buttress is located on the line of a stone built retaining wall that runs east from Building 1 (Illus 9).

A second buttress has also been constructed to support the southern half of the springer for the main ground floor arch. Combined with the projecting alignment in front of Building 1 with the eastern façade of Building 2 (see illus 2), it is probable that the buttresses were constructed to replace a now demolished building that projected eastward from Building 1. The existing low-level wall retaining wall may in fact be the surviving remains of the northern wall of a now demolished building.

Within the eastern elevation it is evident that further alteration has taken place, the ground floor window, for instance is a later alteration,



ILLUS 10 Later inserted window within an original doorway in Building 1 (124) **ILLUS 11** Blocked fi e place within the north wall of A2, Building 1 (052) **ILLUS 12** Later inserted doorway Building 1 (109)

replacing what was originally a second doorway to the north of the existing doorway (Illus 10). The height of the doors suggests this area was used as stabling and a series of later internal divisions confirm that this area was once used to house animals. However, a blocked fire place within the internal area A2 (Illus 2 and 11) indicates that this space was not originally intended to be used for this purpose.

A line of four large rectangular window openings provide illumination to the upper floor. Set just below the eaves, the majority of the windows have been modernised. The two windows located towards the south of the elevation consist of three large upright rectangular panes in a wooden frame glazed with modern security glass. The window to the north of the elevation has been planked up externally with over lapping wavy larch boarding and to a certain extent the remaining window has been boarded over, however this window retains its original window frame and glazed panels (Illus 25). This window would have originally comprised 13 rectangular panes set in a beaded wooden frame, a later opening has resulted in the north set of glazed panels being removed and a rectangular opening being constructed, the function of this later modification is unclear.

West elevation

The west elevation of Building 1 has undergone much alteration and contains some unusual features that are out of place on a possible industrial building and more akin to agricultural buildings (Illus 4).

The lower half of the west elevation contains a single-width fullheight door way that provides access to the upper room within

the ground floor. The frame is crudely constructed of reused and mismatched timbers, a wooden spreading lintel has been inserted above the opening and the door head is constructed in red brick, possibly replacing a now removed stone segmental arch (Illus 12). Currently the door is half timbered with an open top, indicative of animal stalls. The use of brick and multiple wooden lintels would suggest that this doorway is a later alteration to the original design of the building.

Located within the southern half of the lower elevation a rectangular opening reveals the location of full height single width door way that once provided access to the lower ground floor room, the doorway has been blocked with similar stone to the fabric of the building (Illus 13).

Flanking the blocked doorway are two lancet windows, the south one with has an internal splay unlike the northern one which is straight cut and has been partially blocked with stone and at some time widened, perhaps to accommodate a drive belt for some powered farm machinery (Illus 14).

Three more lancet windows with internal splays are positioned to the north of the elevation, one serving the upper ground floor and two serving the first floor. The position of the north most lancet windows and splays is unusual as a small portion of the splay cuts the return wall of the northern gable.

Centrally located within the west facing elevation a stone blocked doorway once provided access from the first floor to a now removed



ILLUS 13 Building 1, west elevation
Building 1 (106)
Building 1 (106)
Building 1 (107)
Building 1 (108)
Building 1 (109)
Bu

building, the doorway is a later insertion and possibly reflects a period of expansion and adaption to the original building (Illus 15).

The external finish of the west elevation at the level of the first floor has been subject to half struck flush pointing and a coating of white wash which may suggests that the removed building was not purely agricultural. Sometime after the removal of the west building a later lean-to structure was constructed against the west elevation, evidence of which is visible in a diagonal mortar scar running across the elevation at the northern edge (Illus 16).

South elevation

The southern elevation of Building 1 is partly obscured by the presence of Building 2 (Illus 5); however the gable end at first floor level contains evidence of three large perpendicular window openings, two now blocked with red brick and one converted into a doorway to provide access to the upper floor of building 2 (Illus 17).

Located at the first floor level on the west side of Building 1, a vertical cut recess and small portion of projecting stone work possibly indicates the point where a now demolished building once butted up to Building 1 (Illus 18).





ILLUS 17 Blocked windows, south facing gable, Building 2 (056) **ILLUS 18** Cut back recess, southern facing elevation, Building 1(101)



ILLUS 19 Arched openings, Building 1, A1 and later blocking (008)

ILLUS 20 Large rectangular opening between A1 and A2, Building 1 (010) **ILLUS 21** Smaller arch, Building 1, A1 and poor bonding of southern gable wall (009)

Building 1: Internal A1

The internal space of building 1 (A1) is open to the elements on the eastern elevation, the large segmental span of the arch provided double height access to the space, suitable for large carts.

The southern internal elevation of this space poses questions for the identification and assessment of the building's function. Currently two blocked arches of different dimensions dominate the southern elevation. Both openings are blocked in a mixture of stone and brick. The eastern and larger of the two has two phases of blocking, the later brick blocking indicating that a doorway once allowed access to Building 2 (Illus 19).

The smaller arch is completely blocked in stone, the stone blocking of the smaller arch being set back from the face of the wall. Above the larger arched opening a long wooden spreading or levelling lintel has been inserted, possibly to constrain some cracking and movement of the wall. The whole of the southern gable wall of Building 2 has pulled away from the fabric of the west wall, the tying of the two walls being non-existent and generally not reflecting the attention to detail seen in the overall construction of the building (Illus 20).

The north elevation contains a large rectangular opening at waist height, now blocked with a mixture of wood, stone and red brick, which would have, when open provided a loading bay within A1 with access to the upper ground floor (A2) (Illus 21).

The floor joists of the room above, which form the ceiling of A1, comprise straight cut timbers with bark and wavy edges, the joists are cut from round timbers and possess a sequence of heartwood with outer bark.

Building 1: Internal A2

The internal area of A2 in its present state reflects the agricultural uses that the buildings have been most recently been subject to. The room has been subdivided into stabling, the haphazard construction of the internal divisions combined with reused materials demonstrates the room was adapted rather than designed for this purpose.

Within the northern elevation and hidden behind panelling for the stabling, a blocked fireplace is visible only at ground level where the blocking stones have collapsed. The construction of the chimney stack is unusual in the sense that the chimney stack is constructed within the thickness of the lower wall cavity, hence the chimney stack is only visible protruding from the thickness of the wall in the room directly above as the overall wall thickness of the building reduces with height.

Within the west elevation a doorway provides external access to the west of the building, the doorway is a later addition, this is emphasised through the use of a substantial reused wooden lintel, the use of which was necessary to support the floor joists of room A3 above, which were truncated by insertion of the doorway (Illus 22).







ILLUS 22 Inserted doorway, west elevation, Building 1, A2 (032) ILLUS 23 Projecting line of chimney breast A3, Building 1 (045) ILLUS 24 Blocked windows and converted window in southern elevation, Building 1, A3 (039)

The most unusual feature of A2 is the large rectangular floor-toceiling aperture within the south elevation (Illus 20). The opening would have provided a large through passage into room A1, the difference between floor levels forming a raised loading platform within room A1. The opening has been blocked with a mixture of wood, brick and then plastered over, perhaps at the time room A2 was adapted for the use of stabling.

Building 1: Internal A3

Access to the upper room of Building 1 is provided through a raised doorway cut into the northern elevation (Illus 5) and in the southern elevation through a converted window that connects with the upper floor of Building 2. The room has been subdivided across the centre by a panel constructed from reused timber, forming two areas. The northern elevation contains a slightly projecting chimney stack (Illus 23) but no indication that a fire place existed at this level. The chimney stack is not visible on the external elevation and the stack has been levelled at roof height.

Within the southern elevation there are three large perpendicular window openings, two of which are blocked with red brick, one of which has been converted into a doorway by having the sill lowered (Illus 24).

A row of four rectangular windows on the eastern elevation are supplemented by two splayed lancet windows on the west elevation. The combination of these windows once provided illumination for the upper room. Within the west elevation a now blocked doorway once provided access to the upper floor of a now demolished building.

Building 1: Roof details

The roof construction of building 1 is formed from a mixture of reused timbers and machine cut timbers. Three simple trusses with cut in purlins and lap jointed top joints are braced by a large tie beam and a straight cut top chord, with iron fixings, the overall condition and the corrugated iron sheet used as roofing material suggest that this roof is not original but is a relatively modern replacement perhaps reusing some original timbers.



ILLUS 25 Projecting building line of Building 2 in relation to Building 1 (121) **ILLUS 26** Carved inscription, Building 2 (016)

6.2 BUILDING 2

Summary

Building 2 comprises a large narrow rectangular structure of three storeys, built to the south of Building 1 and utilising its southern gable wall. The building is narrower than the footprint of Building 1 and the building line projects slightly forward of Building 1 on the eastern face (Illus 25).

Predominately constructed in sandstone blocks with red brick, door and window details and a brick dentiled course below the eaves, the building is roofed in blue grey slate tiles with a clay tile ridge. It carries a slightly weathered but readable inscription within the east elevation depicting that 'this furnace rebilt by William Rea Gen in 1720' (Illus 26). The building in its present guise has little to do with the production of iron and no evidence remains to indicate that the building actually played a direct role in its production.

East elevation

The east elevation (Illus 3 and 27) is the working face of the building. It offers an offset appearance with the location of the doors and the majority of the windows being positioned to the north of the



elevation forming a set of paired windows on the ground, first and second floors with a single line of matching windows to the south of the elevation.

The ground floor of the building is partially buried giving a squat appearance to the lower level; two round headed doorways with brick details provide access to the ground floor. Within the eastern elevation is the inscribed stone referred to above.

South elevation

The southern gable elevation of the building (Illus 5 and 28) is partially obscured by an external stair case. The elevation contains two doorways with brick segmental arched heads, similar to the eastern elevation, providing access to the first and second floors. A



ILLUS 27 Building 2 east elevation





ILLUS 29 Internal roof details, Building 2 (034) **ILLUS 31** Interior of room B2 showing strap roller

ILLUS 30 Blocked doorway and inserted wall, Building 2, A1 (023) **ILLUS 32** Angled and sealed skirting boards, Building 2, A4 (038)

small loading hatch is provided to supply the ground floor, this too benefits from a segmental arch formed from red brick. Although the construction of the doorways is similar to that of the east elevation the overall appearance of the brick detailing is somewhat lacking in finesse when compared to the eastern elevation brick details and may reflect a later phase of works possible associated with the construction of the external staircase.

West elevation

The majority of the western elevation of Building 2 is obscured by the later addition of a range of out-buildings and animal stalls abutting the building (Illus 17). The same dentiled brick course seen on the eastern elevation is seen beneath the eaves. The window locations are not repeated from the eastern elevation; the upper floor contains two central located and casement openings that possible represent a later phase of insertion above a pair of openings with matching segmental brick arched heads, sharing the same construction detail as on the eastern elevation.

Building 2: Roof details

Three king post trusses with cut purlins, constructed from machine cut, wavy edge timbers with wooden pegged upper joints form the roof of Building 2. The overall fit of the timbers within the roof and building suggest that the roof is contemporary with the construction of Building 2 (Illus 29).

Owing to the nature of construction of Building 2, where it abuts Building 1 the purlins of the roof are set into cut sockets within the

southern gable of Building 1. This has resulted in the purlins requiring extra bracing, at some time, in the form of a series of upright timbers, due to the location of the cut sockets, one being in the blocking of a window and one located with the jamb of the doorway from Building 1.

Building 2: Internal B1 and B2

The ground floor has been subdivided by the insertion of an east-west red brick built wall, the southern room being used as animal stabling and the north room for the storage of grain. Access was unavailable to the northern room (B1) due to the build-up of grain behind the door.

The west elevation of B1 contains evidence of a stone blocked doorway with brick detailed segmental arch, partially obscured by the insertion of the later dividing wall (Illus 30). Within the southern elevation a small loading hatch with stone jambs and wooden lintels represents a later inserted feature, possibly associated with a change of use of the building from industrial to agricultural.

Attached to the floor joists of the room above B2 by an iron strap, a small cylindrical roller similar to those used with belt driven machinery may represent the last evidence of past industrial activities that have taken place within the building (Illus 31). It is not in its original location as the worn groove in the centre of the roller indicates that it has been reused as a rope hoist rather than a machine pulley.

Building 2: Internal B3

At the time of the building survey access to this area was unavailable for inspection; the room is accessed through a doorway within the southern gable, via an arched opening, constructed within the external staircase.

Building 2: Internal B4

The room is accessed from both the external stair-case and the converted window of Building 1. Rectangular in plan the area is devoid of any fitting that may indicated past industrial activates, however the room has at some time been used for the storage of grain or some other type of cereal, as a run of angled skirting boards sealed with plaster have been used to bridge the gap between the floor and walls (Illus 32).

Building 2: External staircase

The external staircase is located on the southern gable of Building 2 (Illus 28) and provides a second point of access to the building. Constructed in rough shaped sand stone blocks, the height of Building 2 has necessitated in the staircase being considerably wider than its footprint, extending west of the building and attached outbuildings, possible suggesting that the staircase is a later addition.

The staircase is supported against the southern wall of the range of outbuildings, attached to the west wall of Building 2, but is not directly bonded to the masonry, resulting in the staircase pulling away from the building's fabric. Within the body of the staircase provision was made to allow access to the first floor of the building, an arched opening was formed in the body of the staircase in line with the doorway.

Outbuildings

To the west of Building 2 and the south of Building 1 a series of later stone and brick built lean-to type out buildings fill the angle between the two structures. At the time of the survey the outbuildings were in a perilous style of repair, with collapsed roof timbers so only an external inspection was conducted. The outbuildings represent a phase of expansion or alteration to the complex; they appear to have functioned as animal stabling and storage, constructed from a variety of material, stone brick, wood and repairs with corrugated iron and re-used timbers. The buildings represent the last phase of alterations to the original buildings and reflect the agricultural purposes for which they were adapted.

7 DISCUSSION

The buildings at Furnace Farm represent the surviving elements of what was once a documented centre of iron production within the county of Herefordshire. Although little remains to indicate how the buildings functioned within that process, the survey has demonstrated that the buildings can be split into two distinct phases of construction and from this division it must be assumed that Building 1 relates directly to the production of iron but has been heavily altered and adapted throughout its history.

The building retains a large arched opening on the east elevation that leads into a chamber with two arches of diverging dimension

on the southern elevation. These arches may have been associated with the stoking or tapping points of a furnace located to the south of the building, however it is equally plausible that the building was not directly involved in the production of iron and may represent an engine house associated with driving the bellows with either accommodation or office space above. The blocked fireplace within the lower portion of the northern wall would seem an unnecessary luxury should the building have been in close proximity to a blast furnace and would suggest that the building although probably contemporary with the manufacture of iron played a supplementary role within the former industrial complex.

The identification plaque with the fabric of Building 2 depicts that the furnace was rebuilt in 1720 but it is clear from examination of the building that it never played a direct role in the production of iron. The building directly butts up to and uses the southern gable of Building 1 as its northern gable, resulting in the blocking of the archways and three large perpendicular window openings within the elevation of Building 1, meaning that this structure could not have retained its original function.

The lower floor of Building 2 appears to have been designed for storage of goods or housing of animals while the upper floors retain the internal appearance and layout of production areas. Over time the building has been adapted, with access being provided into Building 1. Later internal alterations including the application of angled skirting boards to the upper floors, may indicate that the building was once used for the storage of grain, although it is clear from the consideration given to the construction of the building that this was not its original use. Despite the inscription suggesting otherwise, it is considered that the building was not constructed for the manufacture of iron, the date plaque being reused as a curiosity or in recognition to the past history of the area. Despite not being directly associated with the manufacture of iron the construction of building 2 may reflect a later phase of industrial activity at St Weonards.

8 CONCLUSION

The building survey has produced annotated plans and a photographic record of the two buildings and has fulfilled the requirements of the WSI. The documentary research and the archaeological building survey have confirmed that the buildings at Furnace Farm have a documented place in the production of iron within the county of Herefordshire. Few original industrial features survive within the buildings and the use and adaption that they have been subject to over the years has masked evidence of their role in iron making. The buildings exhibit much in the way of alteration and adaption and this has been recorded prior to any alterations that may be required when the building are adapted for residential use.

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10 APPENDICES

APPENDIX 1 PHOTOGRAPHIC REGISTER

РНОТО	C/S	B/W	DIGITAL	DIRECTION FACING	DESCRIPTION	PHOTO	C/S	B/W	DIGITAL	DIRECTION FACING	DESCRIPTION
001	36	37	100-0001	_	Film ID B/W 785 / C/S 794	026	-	-	100-0026	W	Series of digital images through blocked door - Building 2
02	35	36	100-0002	NW	General View of the buildings East facing elevation	027	_	-	100-0027	W	Series of digital images through blocked door – Building 2
103	34	35	100-0003	NW	South Facing elevation	028	_	_	100-0028	W	Series of digital images through blocked
104	33	34	100-0004	NE	General view of West facing elevation - angled shot	020			100 0020		door - Building 2
05	32	33	100-0005	E	View of Building 2 West facing elevation- into sun	029	_	-	100-0029	W	Series of digital images through blocked door – Building 2
06	31	32	100-0006	E	View of Building 2 West facing elevation- into sun	030	16	17	100-0030	SW	Internal – Building 2 – blocking seen in arc openings
007	30	31	100-0007	W	View into open arch on East elevation of Building 1	031	15	16	100-0031	NE	North wall, Building 1, internal, two small openings and stalls
800	29	30	100-0008	SW	Internal view of blocked arch's in Building 1	032	14	15	100-0032	NW	West wall Building 1, ground floo , opening into animal stalls
009	28	29	100-0009	S	Detail showing inserted wall of arch's – pulling away from build	033	13	14	100-0033	-	Stop end detail and reused lintel Building Ground floo
)10	27	28	100-0010	N	Blocked opening, Building 1 – brick, stone and	034	_	_	100-0034	_	Roof details, Building 2, third floo
11	26	27	100 0011	C	Wooden floor beam under a ch's in	035	12	13	100-0035	_	Roof details, Building 2, third floo
11	26	27	100-0011)	Building 1	036	11	12	100-0036	N	Blocking windows, inserted, Building 3
112	25	26	100-0012	W	Internal wall detail – concrete fi e place / door	037	10	11	100-0037	Е	Window internal detail Building 2 Floor 3 no lintel/wall plate instead
113	24	25	100-0013	S	Inserted Springer detail and blocking – brick and stone, Building 1	038	09	10	100-0038	E	Floor detail/skirting – change for grain sto Building 2
)14	23	24	100-0014	W	East facing elevation of Building 2	039	08	09	100-0039	S	Building 1 – -blocked windows in gable a
115	22	23	100-0015	W	Detail of inscription plaque - Building 2						door into Building 2
16	-	-	100-0016	W	Detail of inscription plaque - Building 3	040	_	_	100-0040	W	Blocked window / door, West wall, Build 1
17	21	22	100-0017	S	General view of floor in uilding 2 – baked cow muck	041	07	08	100-0041	N	Roof details, Building 1
)18	20	21	100-0018	N	General view of floor in uilding 2 – baked cow muck	042	06	07	100-0042	W	detail showing poorly tied in West wall with gable
)19	19	20	100-0019		Detail of very large glue pot within Building	043	05	06	100-0043	NW	Window and Gable with Fire Stack
					2	044	04	05	100-0044	NW	Window and Gable with Fire Stack
20	18	19	100-0020	E	Internal window detail - Building 2	045	_	_	100-0045	NW	Window and Gable with Fire Stack
21	-	-	100-0021		Machine roller detail - Building 2	046	_	_	100-0046	S	Internal roof details, Building 1
22	-	-	100-0022	Е	Lintel detail - Building 2, reused	047	03	04	100-0047	SW	External view of Building 1
23	17	18	100-0023	W	Blocked opening – Building 2 –brick wall	048	-	-	100-0048	W	Projecting masonry on the NE corner of
24	-	-	100-0024	W	Series of digital images through blocked door – Building 2	049	_	_	100-0049	SW	Building 1 Projecting masonry on the NE corner of
25	-	-	100-0025	W	Series of digital images through blocked door – Building 2						Building 2

Bulding												
Building 1	РНОТО	C/S	B/W	DIGITAL		DESCRIPTION	РНОТО	C/S	B/W	DIGITAL		DESCRIPTION
102 103 104-0052 N	050	_	_	100-0050	_		077	-	_	100-0077	NW	Internal detail, Building 2, showing blocked doorway and brick dividing wall
1	051	_	_	100-0051	-	Waste	078	_	_	100-0078	NW	interesting build up within Building 2
100-003	052	02	03	100-0052	N		079	_	_	100-0079	S	Internal detail of Building 2 ground floo
							080	_	_	100-0080	S	Internal detail of Building 2 ground floo
	053	01	02	100-0053	E	3	081	-	_	100-0081	S	Internal detail of Building 2 ground floo
100-0059 NE External view of Building 1 and 2 west facing elevations 083 - 100-0081 S Building 2 - detail show of generations 084 - 100-0081 S Building 2 - detail show of generations 085 - 100-0081 S Internal detail, Building 2 - detail show of generations 085 - 100-0085 W Internal detail, Building 3 elevations 085 - 100-0085 W Internal detail, Building 3 elevations 085 - 100-0085 W Internal detail, Building 3 elevations 086 - 100-0085 W Internal detail, Building 3 elevations 086 - 100-0085 W Internal detail, Building 3 elevations 087 - 100-0085 W Internal detail, Building 3 elevations 087 - 100-0085 W Internal detail, Building 3 elevations 087 - 100-0085 W Internal detail, Building 3 elevations 088 - 100-0087 SW Internal detail, Building 4 elevations 088 - 100-0087 SW Internal detail, Building 4 elevations 088 - 100-0087 SW Internal detail, Building 4 elevations 088 - 100-0087 SW Internal detail, Building 4 elevations 088 - 100-0087 SW Internal detail, Building 4 elevations 088 - 100-0087 SW Internal detail, Building 4 elevations 089 - 100-0087 SW Internal detail, Building 4 elevations 089 - 100-0087 SW Internal detail, Building 4 elevations 089 - 100-0087 SW External detail, Building 4 elevations 080 - 100-0087 SW External detail, Building 4 elevations 080 - 100-0097 SW External detail, Building 4 elevations 080 - 100-0097 SW External detail, Building 2 091 - 100-0097 SW External detail, Building 2 092 - 100-0097 SW External detail, Building 2 092 - 100-0097 SW External detail, Building 2 093 - 100-0097 SW External det	054	0	01	100-0054	NE	External stairs to upper floor of uilding 2	082	-	-	100-0082	S	Detail showing abandoned joints within floor timber, Building 2 ground floo
	055	-	-	100-0059	NE		083	_	_	100-0083	S	Building 2 — detail showing large glue po
100-0058 NE	056	-	-	100-0056	NE		084	-	-	100-0084	S	Internal detail, Building 2 showing loading door, ground floo
Section Sect	057	_	-	100-0057	NE		085	-	-	100-0085	W	Internal detail, Building 2, ground floo showing joist details
Secretarion	058	-	-	100-0058	NE		086	-	_	100-0086	W	Internal detail, Building 2, ground floo showing joist details
Detail Showing will ground fit	059	_	-	100-0059	NE		087	-	-	100-0087	SW	Internal detail showing wall finish, uildir 2 ground floo
100-0062 W Window detail Building 2 090 - 100-0090 NW External detail, Building 2 091 - 100-0090 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 093 - 100-0091 NW External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0093 N Detail showing projecting building 1 092 - 100-0093 N Detail showing attachm building, Building 2 094 - 100-0093 N Detail showing attachm building, Building 2 094 - 100-0094 N Construction details 068 - 100-0068 S Springer detail, Building 2 094 - 100-0094 N Construction details 069 - 100-0069 S Wooden spreading linte, Building 2 095 - 100-0096 NE Internal view of outside associated with Building 2 096 - 100-0096 NE Internal view of outside associated with Building 2 097 - 100-0097 E Window detail, Building 2 097 - 100-0098 E Window detail, Building 2 097 - 100-0098 E Window detail, Building 2 098 - 100-0098 E Window detail, Building 2 097 - 100-0099 E Wooden spreading linte associated with Building 2 098 - 100-0099 E Window detail, Building 2 097 - 100-0099 E Window detail, Building 2 098 - 100-0099 E Window detail, Building 2 098 - 100-0099 E Window detail, Building 2 099 - 100-0010 NE Projecting masonry and Building 2 098 - 100-0010 NE Projecting masonry and Building 2 099	060	-	-	100-0060	W		088	-	-	100-0088	N	Internal detail, Building 2 showing brick dividing wall, ground floo
100-0062 W Window detail Building 2 090 - 100-0090 NW External detail, Building 2 090 - 100-0090 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 093 - 100-0091 NW External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0093 N Detail showing attachm buildings, Building 2 093 - 100-0093 N Detail showing attachm buildings, Building 2 094 - 100-0094 N Construction details 0068 - 100-0068 S Springer detail, Building 2 with projecting masonry 095 - 100-0094 N Construction details 0069 - 100-0069 S Wooden spreading lintel, Building 2 096 - 100-0096 NE Internal view of outside associated with Building 2 097 - 100-0097 E Window detail, Building 2 098 - 100-0098 E Window detail, Building 2 098 - 100-0098 E Window detail, Building 2 098 - 100-0098 E Window detail, Building 2 098 - 100-0099 E 099	061	_	-	100-0061	W	Window detail Building 2	089	-	-	100-0089	N	Internal detail, Building 2 showing door, ground floo
100-0063 W Window details Building 2 091 - 100-0091 NW External detail, Building 2 091 - 100-0091 NW External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0092 N External detail, Building 2 093 - 100-0093 N Detail showing attachm buildings, Building 2 093 - 100-0093 N Detail showing attachm buildings, Building 2 094 - 100-0093 N Detail showing attachm buildings, Building 2 094 - 100-0094 N Construction details One of the policy	062	-	-	100-0062	W	Window detail Building 2	090	_	_	100-0090	NW	External detail, Building 2, showing loading
Detail showing projecting building line Building 2,1 O92 100-0092 N External stairco	063	-	-	100-0063	W	Window details Building 2						
Detail showing projecting building 2,1 O92	064	-	-	100-0064	W	Doorway detail Building 2	091	-	_	100-0091	NW	External detail, Building 2, showing loading
Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing floor jois, Building 2 Detail showing small blocked arch within southern wall guilding 2 Detail showing small blocked arch within southern wall guilding 2 Detail showing small blocked arch within southern wall guilding 2 Detail showing small blocked arch within southern wall guilding 2 Detail showing smal	065	-	-	100-0065	W		092	_	_	100-0092	N	-
100-0067 NW Retaining wall and buttress, Building 2 094 - 100-0094 N Construction details	066	_	-	100-0066	NW	Retaining wall and buttress, Building 2	093	_	_	100-0093	N	Detail showing attachment of outside
100-0068 S Springer detail, Building 2, with projecting masonry 095 S Detail showing small blocked arch within Suilding 2 100 S Floor joists, rough cut timbers with bark 074 S Detail showing small blocked arch within Suilding 2 100 S Detail showing small blocked arch within Suilding 2 100 S Floor joists, rough cut timbers within southern wall, internal showing 2 100 S Detail showing floor jois, Building 2 100 S Detail showing floor jois, Buildi	067	_	-	100-0067	NW	Retaining wall and buttress, Building 2						
069 100-0069 S Wooden spreading lintel, Building 2 070 100-0070 S Brick in-filled a ch within Building 2, later doorway blocking in stone filled a ch 071 100-0071 W Internal view showing openings within west wall 072 100-0072 W Floor joists, rough cut timbers with bark 073 100-0073 S Floor joists, rough cut timbers with bark 074 100-0074 S Detail showing southern wall Building 2 pulling away from structure 075 100-0075 S Detail showing small blocked arch within southern wall, internal, Building 2 076 100-0076 S Detail showing floor jois, Building 2 077 - 100-0070 E Window detail, Building 2 078 - 100-0071 W Floor joists, rough cut timbers with bark 079 - 100-0099 E Wooden spreading linter 070 - 100-0009 E Wooden spreading linter 070	068	-	-	100-0068	S	1 3 . 3. 1, 3		_	_			Construction details Internal view of outside buildings,
070 100-0070 S Brick in-filled a ch within Building 2, later doorway blocking in stone filled a ch 071 100-0071 W Internal view showing openings within west wall 072 100-0072 W Floor joists, rough cut timbers with bark 073 100-0073 S Floor joists, rough cut timbers with bark 074 100-0074 S Detail showing southern wall Building 2 pulling away from structure 075 100-0075 S Detail showing small blocked arch within southern wall, internal, Building 2 076 100-0076 S Detail showing floor jois, Building 2 and	069	_	_	100-0069	S	Wooden spreading lintel, Building 2						associated with Building 2
071 100-0071 W Internal view showing openings within west wall 097 100-0097 E Window detail, Building 072 100-0072 W Floor joists, rough cut timbers with bark 099 100-0098 E Window detail, Building 2 Window det	070	-	_	100-0070	S		096	-	-	100-0096	NE	Internal view of outside buildings, associated with Building 2
west wall 098 100-0098 E Window detail, Building 2072 100-0072 W Floor joists, rough cut timbers with bark 099 100-0099 E Wooden spreading linter Building 2	771	_	_	100-0071	W	, ,	097	_	_	100-0097	E	Window detail, Building 2
Detail showing southern wall Building 2 Detail showing southern wall Building 2 pulling away from structure Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2 Detail showing small blocked arch within southern wall, internal, Building 2	57 1			100 007 1	**	3 , 3	098	-	_	100-0098	E	Window detail, Building 2
100 - 100-0073 S Floor joists, rough cut timbers with bark 100 - 100-0100 NE Projecting masonry and Building 2 Building 1 101 - 100-0101 NE Projecting masonry and Building 1 101 - 100-0101 NE Projecting masonry and Building 1 102 - 100-0102 E Block opening, Building 2		-	_			, ,	099	-	-	100-0099	Е	Wooden spreading lintel and opening, Building 2
Detail showing southern wall Building 2 pulling away from structure 101 - 100-0101 NE Projecting masonry and building 1 Detail showing small blocked arch within southern wall, internal, Building 2 102 - 100-0102 E Block opening, Building 2 106 - 100-076 S Detail showing floor jois , Building 2 and	073	-	_	100-0073	S	,	100	_	_	100-0100	NF	Projecting masonry and blocked window
075 — — 100-0075 S Detail showing small blocked arch within buliding 1 southern wall, internal, Building 2 102 — — 100-0102 E Block opening, Building 2 076 — — 100-0076 S Detail showing floor jois , Building 2 and	074	-	-	100-0074	S							Building 1
076 — — 100-0076 S Detail showing floor jois , Building 2 and	075	-	-	100-0075	S		101	_	_	100-0101	INE	Projecting masonry and blocked window buliding 1
	076	_	_	100-0076	S	Detail showing floor jois, Building 2 and	102	-	-	100-0102	E	Block opening, Building 2, ground floo
detactica gabie wall 105 100 0105 E block opening, balloning						detached gable wall	103	-	_	100-0103	E	Block opening, Building 2, ground floo

THE OLD FURNACE BUILDINGS, FURNACE FARM FFSH/01

РНОТО	C/S	B/W	DIGITAL	DIRECTION FACING	DESCRIPTION	РНОТО	C/S	B/W	DIGITAL	DIRECTION FACING	DESCRIPTION
104	_	-	100-0104	E	Window detail, Building 2, ground floo,	121	_	-	100-0121	SW	External view of Buildings 1 and 2
					lancet	122	_	_	100-0122	SW	External view of Buildings 1 and 2
105	-	-	100-0105	E	Window detail, Building 2, ground floo, lancet	123	_	-	100-0123	SW	External view of steps
106	_	_	100-0106	E	Building 2, external, blocked doorway	124	_	_	100-0124	W	Insert widow, Building 1 in blocked doorway
					first flo	125	_	_	100-0125	W	Doorway, Building 1
107	-	-	100-0107	NE	Building 2, lancet window detail, first flo	126	_	_	100-0126	W	Window detail, Building 1
108	-	-	100-0108	E	Building 2, lancet window detail, first flo , with roof line scar	127	-	-	100-0127	SW	Detail showing aches in southern gable, Building 1
109	-	-	100-0109	E	Building 2, inserted door way, ground floo	128	_	_	100-0128	NW	Main arch, Building 1 and retaining wall
110	-	-	100-0110	E	Building 2, lancet window detail and						detail
					roof scar	129	-	-	100-0129	W	Main arch, Building 1
111	-	-	100-0111	E	View from within Building 2 looking out towards farm house	130	-	-	100-0130	W	Cut buttress and Springer, Building1
12	_	_	100-0112	S	Outbuildings associated with Building 2	131	-	-	100-0131	W	General view of Building 2 external
113	_	_	100-0113	S	Outbuildings associated with Building 2	132	-	-	100-0132	W	General view of Building 2 external
114	_	_	100-0114	W	Waste	133	-	-	100-0133	W	Detail showing mortar finish, uilding 1
115			100-0115	NW	Barn, iron and stone construction, near	134	_	_	100-0134	W	Detail showing mortar finish, uilding 1
110			100-0113	INVV	study buildings	135	_	_	100-0135	W	Detail showing mortar finish, uilding 1
116	_	_	100-0116	S	North, external elevation of Building 1,	136	_	_	100-0136	W	Detail showing mortar finish, uilding 2
					obscured by vegetation	137	_	_	100-0137	W	Detail showing mortar finish, uilding 2
17	-	-	100-0117	SW	External view of Building 1	138	_	_	100-0138	W	Detail showing flush and st uck mortar
18	-	_	100-0118	SW	External view of Building 1						finish uilding 2
119	-	-	100-0119	SW	External view of Building 1 showing wall plate and iron work	139	-	-	100-0139	W	Detail showing later attached staircase, Building 2
120	-	-	100-0120	W	External view of Building 1 showing windows and power point						





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