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CONTENTS

Field Notes Compiled by J.S. Hodgkinson 2

Heathfield Furnace Site Survey
R.G. Houghton and J.S. Hodgkinson 3

The Indirect Process in the Pays de Bray Brian G. Awty 7

Geology and Iron Ore in the Pays de Bray B.C. Worssam 12

Gazetteer of Furnaces and Forges in the Pays de Bray, France 19

Index 36

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The slag heap of this hitherto unrecorded bloomery (TQ/381314) was trenched to look for dating evidence. Four small sherds of pottery were found, one in the topsoil, two within the slag, and one in the stream. They were all shown to Mark Gardiner who described them as fragments of cooking pots, dated to the late-13th or 14th centuries. The slag itself was somewhat unusual in that freshly broken pieces showed a shiny black, almost vitreous, surface, and conchoidal fracture lines more typical of blast furnace slag. This suggests a higher smelting temperature than usual.

There is a small concentration of bloomery slag at TQ/378323 and a widespread scatter in the field called Great Cinders at TQ/380319 (Straker p.409).

A Bloomery at Upper Parrock

A concentration of tap slag has been found at TQ/456344 in Ave Maria Wood in Hartfield. The location of this, as yet undated, bloomery is within the area which, it has been suggested, was a centre of medieval industry. [1]

A Bloomery in Crawley

A small concentration of forging slag has been found during building work at the rear of 43, High Street, Crawley (TQ/268365). Also in the debris were five sherds of 14th-16th century pottery. Further east, on the same plot, on land adjoining the parish churchyard, a furnace bottom and pieces of tap slag have been found. An increasing number of such sites is being recorded, suggesting an active metalworking industry in the town...
during this period. [2]

Again we are indebted to the ever vigilant Don Edwards for drawing attention to this site.

A Bloomery at Newick, Sussex

A concentration of bloomery slag has been noted at the edge of a field beside the public footpath off Allington Road, south of Newick, (TQ/414205).


The bloomery in Wet Wood, near Mousehall (TQ/602294), was trenched to recover dating evidence. Three small sherds of pottery were found within the slag, and shown to Paul Smith who described them as late-Medieval.

A further concentration of bloomery slag was noted approximately 50 metres downstream of the first site (TQ/603294).

References

HEATHFIELD FURNACE SITE SURVEY 1989.

R.G. HOUGHTON and J.S. HODGKINSON

The WIRG Field Group visited the site (TQ/600186) on three occasions. Heathfield was one of the most important sites in the Weald in the eighteenth century but it has suffered considerable depredation and Cleere and Crossley's description (1985: p.335) requires little amendment.
Heathfield Furnace

- to Heathfield
- to Vines Cross
- former pond
- ?former extent of pond
- former access
- brick clay pit?
- minepits

Scale: 100 metres
Heathfield Furnace site

former pond

boring swarf

cannon mould

foundations

50 metres
Despite their small scale, Yeakell, Gardner and Gream's map of 1795, and the First Edition of the One Inch Ordnance Survey map give some indication of the general shape of the pond, which appears to have been very wide close to the bay, markedly narrowing to the west and continuing under the Heathfield-Vines Cross road when full. On both maps, buildings are shown in the working area at the south end of the bay or to the south of the pond [1]. The corner of the foundations of a building were detected during the survey, together with boring swarf and cannon mould fragments which indicate the probable position of one of the two boring mills. In 1742, low rainfall, which was hindering the boring of ordnance, encouraged John Fuller to make double use of the limited water supply by erecting a second boring mill, although it is not clear where it was situated [2]. The nearby Boring House Farm suggests a site further downstream, but no surface evidence was found.

The substantial opencast working in Brick Kiln Shaw may well have supplied clay for bricks for the furnace hearth. The three minepits above the opencast may well predate it.

NOTES.

   Harley, J.B. and O'Donoghue, Y, The Old Series Ordnance Survey Maps Volume 1, (1975); Sheet 5 was surveyed between 1797 and 1813, that is within twenty years of the closure of the furnace.
THE INDIRECT PROCESS IN THE PAYS DE Bray

The term fonderie ou feronnerie was used in 1454 to describe the ironworks built shortly before that date by two Walloons on land belonging to the Bishop of Beauvais on the river Avelon in the eastern or Picard part of the pays de Bray. All documents from the pays de Bray subsequently keep to fonderie as the term used to denote a blast furnace during the 15th and 16th centuries.

It was Rolf Sprandel who first drew attention in 1968 to the fact that fonderies were to be found in 15th century Wallonia, and since they occurred in association with the Walloon forge which indicated that the indirect process of iron manufacture was involved, he rather diffidently accepted that fonderie must imply a blast furnace.

Schubert's History of the British Iron and Steel Industry included a copy of a 1509 inventory of Newbridge forge, where the employment of separate pairs of bellows in the finery and hammer-mill proved that the two-hearth Walloon forge was in use. He also cited the production of tump irons at Robertsbridge forge in the 1540's as proving that Panningridge furnace was equipped with the forehearth of the true blast furnace, because they indicated that the hearth there must be equipped with a tymp or tymp-stone, from below which the forehearth protruded towards the casting floor.

Charles Gerard or Jerratt, who was always borrowed from parson Levett of Buxted by Sir William Sidney whenever a new hearth was needed at Panningridge, belonged to a family based since 1504 at one of the principal ironworking centres of the pays de Bray, Neuville-Ferrières, so proving a very specific link
between one of the more important blast furnaces in Sussex and the fonderies of the Pays de Bray. Not only were all the nine or ten furnaces in the Pays de Bray for which documentation exists styled fonderies but, in 1496 when Henry Fyner was authorized by Letters Patent to establish ironworks in Ashdown Forest, the word used was 'foundries'.

Though the sites of around 13 or 14 blast furnaces are known in the Pays de Bray, all except the one at Neuville-Ferrières were probably older foundations than Newbridge furnace. By 1560 only the furnaces at Neuville-Ferrières and Glinay continued in use. The furnaces of Frenchy and of Ste-Radegonde are known through single documentary references, in 1500 and 1504 respectively; Ste-Radegonde probably had an existence of fewer than 20 years, and Frenchy could have been even more ephemeral. No documentation at all has so far been found for three other sites. As a consequence, remains tend to be even more vestigial and harder to interpret than the remains on Wealden sites.

Only in the cases of the blast furnaces at Hodeng and Glinay do probable furnace foundations still exist. Glinay is a very promising site for archaeological investigation; Hodeng, where the foundations may have been incorporated into the later corn mill, has now been converted into a maison secondeaire, and the possibility of further investigation is remote.

Water Management. This varied widely. Where, as in the case of Glinay, the site nearest the source of the Béthune, the supply of water was small, the remains of the chaussée or bay are particularly impressive. Where, as in the case of Ste-Radegonde, several mills were in competition for the available supply, the arrangements made are so complicated as to make interpretation
difficult. Here, on the Bethune, and at most sites in the Beauvaisis, rapidly flowing streams originate from springs yielding a plentiful and constant supply, rather than from mere surface drainage, so supply of water was probably not a great problem, though we cannot be sure in all cases that 15th century conditions were the same as those of today.

The situation in the flat, marshy area between Forges and Gournay was quite different. In the Middle Ages much of it was under water and the huge viviers or fish-ponds of the Andelle, Bray and Mont-Louvet covered many acres. It was perhaps due to population pressure in the 16th century that it was thought advisable to dispense with the fish supply and to turn the area into arable land and pasture. The three works so far located in this area perhaps did not survive beyond the 15th century, certainly not beyond 1550. The bay at Mont-Louvet is almost as impressive as that at Glinay; the one at the Etang de Bray probably even more so. On the Andelle the works so far found is above the main vivier, and the upper pond seems to have remained in water into the 19th century, though the main vivier had been drained in the 16th century.

Iron Ore. The Pays de Bray originated as part of the Wealden system. To quote from Worssam in Cleere and Crossley: 'Throughout the deposition of the Wealden beds, for the first 20 million years or so of the Cretaceous, the Weald was part of a vast freshwater-to-brackish swamp or lake....an arm of it extended south-eastwards through the pays de Bray'. The pays de Bray is perhaps a quarter the area of the Weald, being only half as long and approximately half as wide. Denudation has perhaps been carried further than in the Weald with more erosion of the Wealden beds exposing more of the Upper Jurassic layers.

Sufficient mineral deposits remain to have led to a
proposal by a Société minière du Bray in 1899 for reviving the iron industry in the area. The proposal ran into widespread opposition from the ceramics industry and was dropped in the face of the argument that the deposits contained not more than 30% of iron. In the 1920’s E.Barbier found deposits of iron oxides, pyrites and carbonates to be widespread, varying in iron content from 20% to 35%, but since the samples taken were small, he was unable to show commercially exploitable beds were available. The iron and silica contents of the Bray ores probably varied as widely as those in the Weald. The richest of them may well have been largely worked out by the second half of the 16th century. It is also possible that, again as in the Weald, the phosphorous content of much of the ore made it more suitable for the production of castings than for bar iron. Unfortunately all the evidence indicates that the works in the pays de Bray were geared to the production of wrought iron in the form of bars, though around 1540 one third of the wrought iron produced at Neuvville-Ferrières may have been hammered into plates weighing around 125lb. In this respect, the decision of Francis I to establish a cannon foundry at Breteuil in the pays d’Ouche in 1540, rather than in the pays de Bray, could have been a most unfortunate one.

Charcoal The works established in the Beauvaisis early in the period were no doubt favoured by the fact that, for nearly 30 years up to 1449, much of the area had formed a kind of no-man’s-land between the French garrison at Beauvais and the English garrisons at Gisors and Gournay. Wood must have been plentiful from reclaimed arable and pasture and from newly assarted land.

The Béthune valley was particularly well-situated between forest land. To the north were the Lower and Upper Forests
of the county of Eu; north-west were the forests of Aliermtont and Croixdale, belonging to the Archbishop of Rouen; the Royal Forests of the Hellet and of Eawy were north-west and west respectively; to the south the Bois de l'Abbaye and the Bois de Leon belonged to the Abbey of Beaubec; south-east the Forest de Bray and the Bois du Payel belonged to the Duke of Longueville, Viscount of Gournay.

As in England, beech was a favourite wood for charcoal making. Smaller pieces of woodland were often designated as taillis, or coppice, but the ironmasters will have had competition for this from the manufacturers of glass and of pottery. As the 16th century drew on and wood became scarcer, ironmasters were often involved together with other merchants in large purchases from the Royal forests. Here, agreements with wood-cutters show that the wood was cut into logs, cordwood and various kinds of firewood, with the bark being taken by the tanners.

But this woodland was surrounded by large towns such as Beauvais, Rouen and Dieppe, where the prosperity of the late 15th and early 16th centuries brought increasing demands for building-timber and wood for furniture. Rouen and Dieppe both needed timber for ship-building and in the 1520's and 1530's the creation of le Havre de Grace, a new port facing the waters of the Atlantic, with few sources of wood in its immediate vicinity, was probably sufficient to upset completely what can at best have been a precarious balance between supply and prices. During the 1530's the price of wood appears to have doubled whilst the price of iron hardly changed. Between 1542 and 1553 we have no evidence that any iron was sold from the forges of the area but when sales revived in 1553, the evidence is that a 60% increase in iron prices had set the forges at work again.
1. Structure and succession.

The Pays de Bray is an elongated hollow within the extensive Chalk upland of northern France, formed by erosion of an anticline that brings Lower Cretaceous and Jurassic rocks to the surface. It is analogous to the Weald, though much simpler in structure. It is bounded on each side by a Chalk escarpment that attains heights of 220 to 235m (around 750ft) above sea level.

On the south-west side of the anticline at the foot of the Chalk scarp is a shelf 1km to 2km wide on beds corresponding to the Lower Chalk and Upper Greensand, edged by springs thrown out by the underlying Gault. There is then a wider, undulating belt on the outcrop of Lower Cretaceous sands and clays corresponding to the Lower Greensand and Wealden Beds. This tract was formerly largely afforested. The Wealden clays have long been worked for pottery and refractory ware, and the Wealden sands are the presumed source of ore for the iron industry.

The central part of the Pays de Bray is an upland, the Haut Bray, rising to 200m (650ft) in places, composed of Jurassic (Portlandian and Kimmeridgian) beds. On the north-east side of the anticline the dip (at 20° to 40°) is much steeper than on the south-west side, and the Lower Cretaceous beds form a narrow faulted belt, only 0.5km to 1km wide, at the foot of the Chalk escarpment.

Geological boundaries are indicated on Figs. 1, 2 and 3. On French geological maps, beds are grouped according to age, using ‘stage’ names such as Kimmeridgian.
Kimmeridgian and Portlandian. The Kimmeridgian consists of clay and has a restricted outcrop. At the base of the Portlandian is a 4m thick hard lithographic limestone, the outcrop of which forms hill tops in the southern part of the Haut Bray. The middle part of the Portlandian consists mainly of clays and marls, but includes a bed of hard, shelly calcareous sandstone. We found this to have been dug in a little quarry at the south end of the bay of Glinay furnace, and in another at Hodeng furnace, and used at each place for construction of the furnaces. Some sands at the top of the Portlandian are ferruginous, and may have been a source of iron ore.

Neocomian and Barremian. These are fresh- to brackish-water sediments corresponding to the Upper Purbeck and Wealden Beds of southern England, but the whole sequence is much thinner. The Neocomian consists of white sands and ferruginous sandstones, with lenses of grey clay. There is no persistent clay formation like the Wadhurst Clay of the Weald. The Barremian corresponds in age to the upper part of the Weald Clay. It is described as an ‘argile panachée’ or variegated clay, mottled grey, yellow and red. It dies out north of the latitude of Gaillefontaine.

Aptian. The Aptian comprises only a thin development of clays, at the extreme southern end of the Pays de Bray.

Albian. South of the latitude of Gaillefontaine the lower part of the Albian consists of glauconitic sandstone, like the Folkestone Beds of Folkestone, and the upper part of the Gault clay, much like that in England. North of Gaillefontaine the sand dies out, and the Albian consists wholly of clay.

Cenomanian, Turonian and Senonian. These together make up the Chalk, including a basal layer of ‘gaize’, described as a lightly-cemented siliceous rock with abundant sponge spicules,
rather like the Upper Greensand of southern England.

Tertiary. The Chalk upland of Picardy and the pays de Caux has a number of small outliers of Tertiary clays and sands, but these are omitted from Fig.1. In the south-east part of Fig.1 appears the main Tertiary outcrop of the Paris Basin, essentially a plateau formed by the thick and extensive Calcaire Grossier limestone. This limestone includes freestones much used for building in Paris.

The above account is based on the thesis by Mlle Arribet, on the 'notices explicatives' of French 1:80,000 geological maps, and on Pomerol and Feugueur's 1974 geological guide 'Bassin de Paris' (Guides Geologiques Regionaux; Paris: Masson et Cie). The section, Fig.4, on the line AB of Fig.1, is based on Pomerol and Feugueur's Fig.95.

2. Iron ore and slag.

We were able to see an exposure of Neocomian sandstone at Rainvilliers, in a small disused quarry that showed about 4m of gently dipping yellow-brown medium-grained soft sandstone, consisting of subangular quartz grains (about 4mm diameter) in a limonitic (iron oxide) matrix. The limonite is concentrated in places, to form thin layers and thicker irregular masses of a hard orange-brown sandy ironstone. M.Jean Cartier explained that a lower part of the quarry, now filled, had provided building stone used in Beauvais.

Ironstone as sandy as that seen in the quarry would have rated as ore of inferior quality in the Weald. A similar stone was possibly used for bloomeries at the isolated localities of Lenham Heath and Hollingbourne in Kent. It occurs in quantity in the Lower Greensand of Surrey and West Sussex, but seems to have been totally ignored, with Weald Clay ironstone from minepits being
used for preference in blast furnaces in that region.

Red Barremian clay in a roadside exposure near the entrance to Le Moulin du Fourneau included some small nodules of a dark red to yellow-brown, limonitic, slightly micaceous sandy siltstone. This type of material might have served as an ore, if it occurred in sufficient quantity.

Most of the slag fragments to be seen were of a greenish glassy type; some fragments displayed an iridescent blue colour. Slag at Le Vaumain and Le pont de Fayal included chips of flint which, unless they were picked up as the slag flowed across a gravelly surface, may indicate that chalk was used as a flux.


As well as being used in Beauvais, ferruginous sandstone from the Neocomian was used for construction of the medieval church at Rainvilliers. An unexpected discovery was that an excellent stone for furnace construction existed in the Portlandian - the hard, shelly calcareous sandstone mentioned above. Some blocks of it used at Glinay were 1m long and 0.5m thick, according to workmen who had dismantled the mill (the successor to the furnace at Glinay), some 20 years ago. Similar stone appears in stone walls in the nearby picturesque village of Beaussault and was used for the church in Neufchâtel market place.
GAZETTEER OF FURNACES AND FORGES IN THE PAYS DE BRAY, FRANCE.

1. Les forges de Milly
Blast furnace and possibly finery forge.
Location: 1 km S. of the D.133 between Milly sur Thérain and Herchies, 11 km NE. of Beauvais.
Site: Below the confluence of the Petit-Thérain with the Thérain. The mills are now replaced by a factory. The proprietor recalls black, shiny slag being unearthed during work on the site. 'Two or three wheelbarrow-fulls' of slag were found when the foundations for a house were being excavated just below the site. Blue slag has also been found, and it seems that heavy cinders may have occurred. A fall of water in the vicinity of the factory may indicate the water-powered site.
History: Since this site was well away from the area dominated by the English up to 1449, this works could be earlier than any within the pays de Bray. The proximity of Campdeville, whose lord was Jean de Candeville who set up Hodeng fonderie around 1480, suggests that de Candeville was also involved here.

2. La fonderie et forge de Rainvillers
Furnace and forge.
Location: 1 km NW. of the N.181 on the outskirts of Rainvillers, approx. 5 km SW. of Beauvais.
Site: Delineated on a plan of 1508 made for Thibault Le Batier, canon of Beauvais cathedral. The fonderie was on Le petit vivier fed by the stream of Friancourt, the forge on Le grant vivier, fed by the stream from St-Leger. The vestiges of the bay of the Grant
Vivier are planted with trees. The field below contains heavy cinders and prominent features covered with brambles could conceal remains of the forge buildings. Black blast furnace slag has been found in the garden of the farm situated at La Forge.  

**History:** unknown.  

**Diagrammatic representation:** Circular section furnace (?), with 6 or 7 steps leading to the throat. Undershot wheel (?). Charcoal (?) basket. Forge has two wheels.  

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3. **La forge du Becquet**  

**Finery forge.**  

**Location:** On a minor road N. of, and parallel with the N.31, 7.5 km W. of Beauvais.  

**Site:** The chemin des Rotons was possibly the bay below or adjacent to which the forge was built. Very little cinder has been found.  

**History:** There is no copy of the first deed dated 4 January 1451, by which Renaud de Corbie (probably the son of a former Chancellor of France), lord of Courcelles, sold to Henry le Feron of Jausse-le-Feron in the county of Namur and Pierre le Fondateur of the terre de Franquimont, now at Beauvais, an empty place adjoining the bay and sluice of the vivier of Courcelles and the place extending below this, to construct a house and a moulin à faire fer. A copy made in 1478 exists of a second act of 27 April 1451, which gave Henry Malerbe, hammerman of Liège, then also present at Beauvais, a third share in the moulin à faire fer. No copy survives of the further act of 1466 by which Renaud de Corbie confirmed to Hennedric Laffineur 'the place and bay of the vivier of Courcelles where the ferronerie is.'  

In 1486 the Abbey of St-Paul bought de Corbie's estates from de Corbie's daughter and son-in-law. In 1554 Guillaume La
Folie asked permission to convert the forge into a corn mill, because of the scarcity of wood. By 1556, when he sold the mill to Pierre de Canonne of Beauvais, he is described as 'affineur de fer demeurent aux forges Vuatigny, pays de Thiérache'.

* * * * *

4. **Le moulin du Fourneau** (Les Rouges Eaux)
Blast furnace.

**Location:** To the north of the N.31, 100 m E. of the layby 8 km W. of Beauvais.

**Site:** Between *le pont de Forest* and *Les Bonhommes*. According to Mlle. Arribet the present mill was built during the 19th century near the end of *la rue du fourneau au champ de Taillis* and opposite the *chaussé de l'étang de la Rouge Eau* (which formed part of a now disused section of the old road from Beauvais to Rouen). However, part of the furnace structure can be discerned in the south-east corner of the mill, behind the millwheel. Surviving stone courses indicate that the furnace was approximately 5.2m square at the top of the casting arch. There is blast furnace slag in the garden below the mill buildings. A flat, low-lying stretch of ground above the buildings may indicate a former mill-pond.

**History:** Copies exist of a 1454 *vidimus* (census) of the diocese of Beauvais which relates that 4 *arpents* of land on the Avelon between the *Pont de Forest* and *Les Bonhommes* had recently (*nouvel*) been leased to *Henry le Feron* and *Pierre le Fondeur* to pound the water and build a *fonderie ou feronnerie*. In 1507 their heirs are stated to have been François Maixence, Robechon Maixence, Jehan Poulssin on behalf of (blank) his wife, Marion de La Folie and Henry Baillet (curator and tutor of the children of *grant* Jehan Maixence). The Maixence family sold the *fonderie*, or a 20 livres rent on it to Jean de Caen, a Beauvais merchant, in 1520, which is
perhaps when they moved to England. The later history is bound up with La forge du Becquet.

**Personnel:** Robert (Robechon) Maxence, fondeur de fer, 1515.

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5. **Les forges du Vaumain**

Blast furnace and finery forge.

**Locations:** Furnace: 1 km NE. of Le Vaumain, on the N. side of D.166, where a track from La Fonderie crosses the Aunette.
Forge: At le Moulin de la Forge S. of the D.166, 0.5 km north of Boutencourt.

**Sites:** On the Aunette, south of the pays de Bray. The forge, where a large number of heavy cinders (mossers or forge bottoms) can be seen beside the drive, was in the commune of Boutencourt. The furnace was situated below the village of La Fonderie; black, glassy slag has been found, and a large heap of agglomerations of cinder, similar to 'bears,' lie in the field beside the site. Other 'bears' are to be found in the stream. Their iron content appears lower and their weight less than that of genuine 'bears.'

**History:** These works are frequently mentioned from 1489 to 1503 in a published volume of notarial acts from Chaumont-en-Vexin.

**Personnel:** Forgemaster - Jean Langlois; founders - Oudin Franc Coq, Robinet Lienart; finer - Jean Louvet; hammerman - Toussaint La Caille.

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6. **Le Mont Louvet**

Blast furnace.

**Location:** About 6 km NE. of Gournay en Bray, off the W. side of the N.15, just N. of the hippodrome (race course).

**Site:** Mlle Arribet has found green, glassy slag on the bank of the
Morette, somewhat below where it now breaks through the former chaussée of the Etang de Mont Louvet. There are now three breaches in this chaussée to the west of a medieval motte, and the fact that slag is concentrated below the middle breach suggests that the furnace may have been supplied with water from this point, rather than from the westernmost breach, through which the Morette currently flows.

**History:** Potin de La Mairie (1844) suggested the Etang de Mont Louvet activated a forge in the Middle Ages. The furnace probably dates from the second half of the 15th century, but there is no documentary record. It may have belonged to the Viscountcy of Gournay.

* * * * *

7. **La forge du petit vivier de Bray**

Forge.

**Location:** About 11 km NW. of Gourney en Bray, to the W. of the N.15, 1.5 km N. of the turning to Dampierre en Bray.

**Site:** A very complicated site. The forge appears to have been activated by the petit vivier, which was separated from the grand vivier de Bray by a large chaussée, the middle section of which 'will have been constructed of stone', the water flowing through its arches into a channel or basin, the petit vivier, which extends as far as the moulin de Bray.

The mill had disappeared by the start of the 19th century and the moulin de Bray is now the appellation of a large mansion near the site. Cinder is found surrounding this mansion and is used as decoration in the masonry. It can also be found along the road on the south side of the property, but the largest deposits are on the opposite side of the stream in a small wood. Above this wood the contours form a mound at right angles to the
stream and this could be the remains of the bay. A few dozen metres below, a sort of plinth, entirely formed of cinder, about 3.5m long, projects 20cm out into the course of the stream. Near this area are heavy cinders (forge bottoms?) rich in iron content, but also a few fragments of blast furnace slag.

There is also cinder in the area below the chaussée of the grant vivier, where it was also possible that ironworking was carried on.

**History:** Potin de La Mairie (1844) also mentioned the Forge du petit vivier de Bray. In January 1487, Jean Clouet, ferronnier at the forge des Iles near Neufchâtel, moved to this forge, which seems to have been held by Vienne de Malinguehen, almost certainly a member of a Beauvais merchant family, on lease from the Comte de Tancarville, who was viscount of Gournay.

* * * * *

8. **Le Pont du Fayel**

**Blast furnace**

**Location:** About 2 km SW. of Forges les Eaux, at the bridge on the minor road off the D.13.

**Site:** The pont du Fayel is situated on a road which appears to have formed the bay of a pond which was used at the start of the 19th century to float wood from the Forêt de Bray onto the Andelle and thence down the river to Rouen. Writing in 1607, Pierre Le Grousset indicated it as a site of a martinet or hammer-mill. However, Mlle. Arribet has found grey to green blast furnace slag a few metres below the bridge on the right-hand side of the stream at the inside of its bend. No foundations appear to remain.

**History:** Apart from the mention by Le Grousset, none. The stream marks the boundary between the communes of Forges and of La
Ferté-en-Bray, which belonged to the Viscounty of Gournay at the end of the Middle Ages.

* * * * *

9. **Le moulin de Glinay**

Blast furnace (and forge?).

**Location:** On a track leading from the D.135 to Compainville, 5 km NW of Gaillefontaine.

**Site:** Blast furnace slag and other remains cover a wide area below the largest bay on the Béthune. The furnace was perhaps located at a compacted massif which it was found impracticable to remove when the mill was demolished after the Second World War. Adjacent to the track leading towards Compainville is a quarry which could have furnished the stone for the furnace. Ciszeville thought that this was the older of the two Beaussault sites. At this point the Béthune separates the commune of Beaussault from that of Compainville, but though the fonderies of Glinay were leased with the forges of Beaussault in 1562 by the Princess of Condé, they were not included in the lease of the Beaussault works made by the Chevalier de Roye in 1509.

**History:** Jean Bridoullet, who bought iron ore from Fronval in Bouelles in 1486, is mentioned as being ferronnier at Glinay in 1495. He was still at Glinay in 1512, when he agreed to complete delivery of 60 milliers (30 tons) of iron in rods (verges) to Jean Heuze of Rouen for the widow of Jean Hiesse dit des Mazis. Later ironmasters, who also worked in partnership with the ironmasters at Beaussault were Nicolas Hué dit Le Blanc (fl. 1537-42) and Louys Pinguet (1553-64). The 1563 lease assigned the Glinay fonderies along with the Beaussault forges to Pierre de Clery, an Aumale merchant, and his son François, from 1564(5?).
10. **Les forges de Beaussault**  
Blast furnace and forges.  
**Location:** On the minor road between Beaussault and Petit Beaussault.  
**Site:** On the site of the moulin du Château between Beaussault and Petit Beaussault, not far below the medieval fortress, and not on the Béthune river. The old road from Beaussault to Gaillefontaine probably ran along the bay, and the pond was formed by the stream of Toupray and the ruisseau des Sources dites du Château. Both blast furnace slag and forge cinder have been found.  
**History:** The seigneurie of Beaussault belonged to the chevaliers de Roye, but was inherited by Louis de Bourbon, Prince of Condé through his wife, Lienor de Roye, in the 1550s. Louis de Condé’s son, Henri duc D’Enghien, sold Beaussault to the Sieur de Gaillefontaine in 1579.  

We know the following ironmasters of Beaussault:  

<table>
<thead>
<tr>
<th>Name</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jean Hiesse dit Desmazis</td>
<td>1493-1502, 1502-1511</td>
</tr>
<tr>
<td>Jean Malhortie, Sieur de Villers</td>
<td>1511-1520</td>
</tr>
<tr>
<td>Antoine de Beaurains</td>
<td>1529-1538, 1538-1547</td>
</tr>
<tr>
<td>Marin Le Maurre</td>
<td>1547-1556, 1556-1565</td>
</tr>
<tr>
<td>Pierre and François de Clery</td>
<td>1565-1574</td>
</tr>
<tr>
<td>Nicolas de Meaulx</td>
<td>fl. 1650</td>
</tr>
</tbody>
</table>

The ironworks is first mentioned in the Neufchâtel notarial records in 1495, when Jean Hiesse held the forge; these records contain a 1512 copy of the lease made in 1509 (but not coming into force until May 1511) to Jean Malhortie. It is this lease that contains the only mention of the fonderie. The seigneurie of Villers was west of the Seine, but Malhortie’s
interest in the iron industry probably came through his former wife, Vienne de Malinguehen.

The fact that Peter Borayne worked as a finer for Joan Isted in 1549 is a hint that Antoine de Beaurains may have actually had ironworking skills. His associate at Glinay, Nicolas Hué dit Le Blanc, may have been related to Marquis Hué who was ironmaster at the royal cannon foundry at Breteuil in the pays d'Ouche around 1540.

Marin Le Maurre was probably related to Huchon Le Maurre, who had a corn-milling background, whilst the de Clerys were Amale merchants, who purchased iron from the ironworks at Neuville-Ferrières, before acquiring an interest in that ironworks as well as acquiring the lease of Beaussault and Glinay.

The works was probably the last to be laid down near the end of the 17th century.

11. **La fonderie de Hodeng**

Blast furnace

**Location:** 1 km down the minor road S. of the D135, 7 km SE of Neufchâtel en Bray.

**Site:** Built slightly below the medieval corn mill (then in ruins) by Jean de Candeville around 1480. At this point, the Béthune has a good, rapid and constant flow, so the wheel was driven off a minimal pond, similar to that at Neuville-Ferrières. The later corn mill (now a secondary residence) appears to have been built on the ruins of the blast furnace. At ground level the surviving corner courses showed that the furnace was approximately 5.7 m square.

**History:** Jean de Candeville arranged for all the pig iron produced at Hodeng to be fined at the forge at Neuville-Ferrières. However,
by 1486 the fonderie was being run by Guillaume Houel and Antoine Bourse, de Candeville's stepson, and when Bourse bought out Houel in July of that year, the agreement involved the sale of both bar iron and sow iron to Houel. In consequence the agreement with the Neuville-Ferrieres forge needed re-negotiation. From August 1486 only one third of Hodeng sow iron went to Neuville-Ferrieres.

In 1537 Jean Langlois, son of Colin Langlois of Beaussault, leased the site of the fonderie to a local man at a purely nominal rent. Was this Jean Langlois related to the ironmaster of the 1490s at Le Vaumain? Was he the John Langleys alias Margo who came to England in 1526 and was working at Panningridge around 1550?

* * * * *

12. La forge de Hodeng
Finery forge

Location: As No.11.

Site: Adjacent to the medieval corn mill and legally transferred with it, and only perhaps 50m or 60m above the fonderie.

History: May have been built in 1486 following the modification of the Hodeng arrangement with Neuville-Ferrieres forge. It was leased in 1499 (along with the fonderie?) by Pierre Pachoult to Robert du Templier dit Le Turc for 2 years at a rent of 60 livres t., per annum, 12 livres of which had to be paid to Henry Blanche and Gillet de Fontaines (another mortgage?). In 1503 it was the subject of another legal auction at the behest of Thomassin Le Couroyer dit Cailleu (who had previously had the fonderie auctioned!) 'de l'obligation de Henry Blanche'. This resulted in a lawsuit between Gillet de Fontaines and Clement Le Caron, who had purchased the auctioned share, which lasted until 1509, when the whole (?) was purchased by Guillaume du Manoir. The corn mill was
now to be repaired, but a lease of half the forge purchased by Jean Bridoulet, and which still had 19 years to run, was to be respected. This would take the history of the forge to 1528, if Bridoulet survived so long, but no further documents mentioning the forge (or mill) survive.

* * * * *

13. **La forge d’Acher**

Steel forge?

**Location:** E. of the N.314, 0.5 km SE. of Saint Saire.

**Site:** The precise site has still to be located, but it was erected presumably on the Béthune adjacent to a corn mill to be built on the manor of Rouge Moulin under the terms of a 99-year lease of the manor made by the Abbey of Beaubec in 1476. The corn mill was to be built during the 9 years following Christmas 1477, so it was presumably built before Christmas 1486, and indeed the full rent of 19 livres, stipulated to be paid only after the building of the mill, was first paid in 1485. At and below Rouge Moulin cinders and slag are distributed over a wide area on both banks of the Béthune.

**History:** In 1500 Jean de Quenel, écuyer; Sieur de Quenel, des Iles et d’Oppilières leased the corn mill, including the site (siège) of the forge, to Henry Blanche, who we have found involved at Hodeng, for 8 livres p.a., with a caveat that Blanche was not to impede the flow of water to Quenel’s fonderie de Frenchy, when he wished to use it again, which would be in 18 months time. The forge is mentioned in no other document, nor is it mentioned in the muniments of the Abbey of Beaubec. What is meant by the fact that only the site (siège) of the forge is conveyed?
14. **La fonderie de Frenchy**

Blast furnace.

**Location:** As No. 13.

**Site:** On the Béthune at or below the manor of Rouge Moulin, as is suggested by later references to the moulin de Frenchy which indicate it lay within the parish of Nesle. This agrees also with the indication given in the deed of 1500 that the flow of water to it could be impeded by the corn mill. It is difficult to detect traces of former leats and ponds, nor are they indicated on surviving maps and plans. Mlle. Arribet notes that slag is distributed over a wide section of both banks of the Béthune here. There is a large accumulation of blue blast furnace slag on the north bank of the stream, at the eastern extremity of the manor within the parish of Hodeng, well above the probable site of the moulin de Frenchy.

**History:** There is no history beyond the mention in the 1500 lease of the corn mill of Rouge Moulin, which shows that it belonged to Jean de Quenel, who had other ironworks, and that in 1500 it was not in blast. Like the forge d’Acher, it was presumably built after 1476, probably after 1485, and perhaps had a short life. The slag accumulation at the eastern extremity of the manor indicates a further furnace site for which there is no documentary evidence.

* * * * * * *

15. **La forge de Neuville-Ferrières**

Forge, then blast furnace, then both.

**Location:** At the saw-mill off the D.117 on the N. side of the village.

**Site:** The place name (Neufville la Feriere, in the 15th century) indicates that ironworking had been carried on at an earlier period, though whether with a water-powered hammer at the same
site is quite uncertain. The site is presumably now all covered by the extensive premises of the saw mill. Some of the revetment of the present water-courses could be very ancient. Blast furnace slag of a green and blue colour is distributed over a wide area near the saw mill.

**History:** First mentioned in a notarial document from Rouen of 1479, the forge, which belonged to Aubery Douillé, lord of Neuville-Ferrières, was presumably erected to forge pig iron from Hodeng. After 1486 it presumably also needed another source of pig iron.

The **fonderie** is first mentioned in 1537, when it was worked in conjunction with the forge des Iles (or Vienne?), under a lease held by Guillaume de Fry of Neufchâtel, a merchant. The arrival, from Neuville, of members of the Gerard and Tyler families, who were founders, in England during the 1520s suggests that the **fonderie** was established well before then; if not as early as 1486, at least by 1504, when the Guérard family first appears in Neuville-Ferrières.

When leased again in 1551 to Guillaume Lambert, the works seems to have had its own forge. After Lambert broke his right leg in two places and became blind at the end of 1554, Gautier Maistre, a merchant from Pontoise, near Paris, took it over, but he appears to have become bankrupt in 1556. In 1563 the works was in disrepair, and the current ironmasters, François de Clery and Louys Pinguet (ironmasters at Beaussault) and Charles Le Roy, a Beaussault merchant, were required to repair both the **fonderie**, the forge and their tools.
16. **La forge des Iles** (subsequently named **La forge Vienne**?)

**Finery forge.**

**Location:** Along a track off the W. side of the D.117, 2 km N. of Neuville-Ferrières, just S. of the railway crossing.

**Site:** On the pré des Iles, near the present moulin Gobin. There is darkened earth and a wide and heavy scatter of forge cinder close to the site of a former bridge about 100m downstream of the moulin Gobin (the present bridge is a post-war construction much nearer the mill). Forge bottoms are incorporated in the present sluice gates. At the mill, part of the timber framing is joined by an 'anchor beam.' More commonly used in forge carpentry and in furniture making, this joint is unknown in external joinery in England, although widely found throughout northern Europe. It appears as the joint used to hold together the framework surrounding the furnace portrayed on the Lenard fireback.

**History:** The forge belonged to Monsieur de Quenel. It was perhaps built early in the 1480s to convert sow iron from the fonderie of Neufchâtel. In 1487, Jean Couet, ferronnier there, quit the forge and moved to the forge du Vivier de Bray. He was succeeded by Jean Lucas, as maître de forges of M. de Quenel. Lucas had previously lived adjoining the forge of Neuville-Ferrières; he died in 1509. In 1515 the forge was leased to Guillaume de Fry, a Neufchâtel merchant. In the 1530s the forge (de Vienne) was being run by Guillaume’s son, Robert de Fry, who got into increasing financial difficulties, was imprisoned for debt in 1537, and died later that year. Guillaume made over a half share in the forge and in the fonderie of Neuville-Ferrières to Pierre Gascoing the elder and Pierre Gascoing the younger, who were to pay half the 35 livres t. rent on the fonderie, but only 5 livres of the 53 livres 5 sous t. due on the forge.
Around 1540 iron from this forge was sold in bars and in 125lb. plates in Neufchâtel, to Bures, further down the Béthune river, and to Eu, adjoining Tréport.


* * * * *

17. La fonderie de Neufchâtel

Blast Furnace

Location: unknown, but in the vicinity of the moulin Bleu on the Béthune, NE. of the D.1, about 1km SW. of Neufchâtel-en-Bray.

Site: La terre de la fonderie was one of the bounds of a three-cornered islet conveyed along with the tanning and fulling mills of Ste-Radegonde to the ironmaster Jean Lucas by M. de Quenel in 1504; the other bounds were the mills and the river which served them. There is no doubt that the mills, both of which are shown on Cassini’s map of 1744, occupied the site of the present moulin Bleu. Mlle. Arribet notes small scatters of slag at three points on the right bank of the Bethune between 200m and 500m below the moulin Bleu, but the evidence seems insufficient to confirm the former existence of ironworks.

History: In 1504 the terre de la fonderie was held by the heirs of Jean Angreville, who was dead by January of that year. It seems probable that the fonderie was designed to provide sow iron for de Quenel’s forge des Iles. Jean and Aubery (his brother?) Angreville were tenants of M. de Quenel, who moved from Neuville-Ferrières to Neufchâtel - Aubery to Rouvray in February 1483 and Jean to the rue Ste-Radegonde before November 1486 (possibly in December 1482). These dates, 1482 and 1483, give us possible dates for the building of the fonderie. The 1504 lease of the Ste-Radegonde
mills has a clause precluding its lessee from pounding so much water as to impede the water wheel of the forge des Iles, but makes no reference to the fonderie's need of water. This might imply that it was no longer in use and that the forge was now able to obtain sow iron from the fonderie at Neuville-Perierres, which could well have been built at this time.

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INDEX

Compiled by David Combes
Assisted by Dorothy Hatswell

Abergavenny, Lord 6:11,29
Alcron, Mary 8:41
Alfrey, William 8:44
Alienmont forest 10:11
Anchor beam 10:32
Andelle Furnace 10:9
Andelle, River 10:9
Angell, John 9:34
Angreville, Jean 10:33
Ann of Cleves House 8:20,43,44
Ardingly church 8:20; 6:29
Ardingly Forge 9:14
Arribet, Mlle 10:15
Ashburnham 9:5
Ashburnham Forge 6:38; 8:28
Ashburnham Furnace 6:38;8:28;9:2
Ashburnham Furnace & Forge 6:39
Ashburnham, John 6:21,38
Ashburnham, Mr. 6:39
Ashdown Beds 8:4
Ashdown Forge 6:29
Ashdown Furnace 6:29
Ashburnham, Isabell 6:16,18
Asheburnham, John 6:16
Ashefelde Forge 6:13
Ashurst Forge 6:30,31;9:33,36,37
Ashurst Furnace 6:30,31
Ass Wood 7:36
Atwells, James 8:40
Atwells, John 8:40
Aunette, River 10:22
Ave Maria Wood 10:2
Avelon, River 10:7
Awty, B.G. 6:45; 9:33; 10:7
Badland Wood 7:30
Baillet, Henry 10:21
Baker 6:47
Baker, Christopher 6:8,9,23
Baker, Dorotheae 8:26
Baker, John 6:15,36,46; 8:25,26
Baker, Robert 8:43,44; 9:36
Baker, Sir Richard 6:14,15,17,
18,19,20,35,40
Bakers of Mayfield 8:32
Barantyn, Drew 7:20
Barantyne, Sir William 7:20
Barbier, E. 10:10
Barcley, Anne 8:22
Barcley, Henry 8:22
Bardown 7:24
Bardown, bloomeries 9:4
Barentine, Drew 7:21
Barham, Ann 8:39
Barham, David 8:35,36,39
Barham, John 6:11,46; 8:36
Barham, William 8:40
Barhams of Wadhurst 8:33
Barton, Thomas 9:34
Baset, Thomas 8:17
Basset, Ann 8:17
Bassett, Henry 9:36
Bassett, William 9:33,35
Batsford Furnace 6:36,37; 8:50
Battle 6:4,10
Battle & Dist. Hist. Soc. 7:27
Bayham Forge 6:11,36
Beaubec, Abbey of 10:29
Beauport Park 7:28; 8:4
Beaurains, Antoine de 10:26,27
Beaussault 10:16
Beaussault Furnace & Forge 10:26
Beauvais 10:11,16
Beauvais, Bishop of 10:7
Becquet Forge 10:20
Bedgebury Furnace 6:38,39
Beech Mill Furnace 6:4
Benge, Ann 8:36
Benge, William 8:36
Benhall Forge 6:38,39
Benzells Wood 6:54,55
Bermondsey 8:19
Béthune, River 10:8,10
Bettesworth, Thomas 6:42
Beuse, John 9:34
Bex Mill 9:3,4
Bibleham Forge 6:34
Billingshurst 8:20
Birchden Forge 9:35
Bird, Mrs. R. 7:20
Bisshopp, Elizabeth 8:31
Bisshopp, William 8:31
Bisshopp 8:31
Bivelham 6:45,46,47
Bivelham Forge 6:45
Black Pond Shaw field 6:50
Blacket, John 6:20,30
Blackfold Furnace 6:28,29
Blackland Farm 7:15
Blackman, H. 8:8
Blackwater Green Forge 9:10,14
Blackwell, Margaret 6:19,27
Blackwell, Mrs. 6:18,19,26
Blackwell, William 6:19,27
Blanche, Henry 10:28,29
Blank, Robert 6:45
Bloomeyres, Medieval 6:6;8:8;9:2
Board of Ordnance 6:43; 7:33
Bois du Fayal 10:12
Bois de Leon 10:11
Boniche, James 9:34
Borayne, Peter 6:45; 10:27
Boring cannon 7:33
Bottinge, John 8:17
Boundary, geological 9:5
Bourbon, Louis de 10:26
Bourne, James 9:27
Bourse, Antoine 10:28
Boutencourt 10:22
Bower, Henry 6:18,21,28,29
Boyer, William 6:29
Braban 8:31
Braban, Edward 8:39
Braban, John 8:39
Braid, D. 7:33
Brambleton Forge 6:31
Brambletye Forge 6:30
Bramshott 6:6,42
Bramshott & Liphook Society 6:44
Bramshott bloomery 6:6
Bramshott Paper Mill 6:43
Bray Forge 10:23
Bray, River 10:9
Braye, L. 6:27
Braye, Lady 6:16
Braye, Lord 6:27

Brede 8:2
Brede, River 7:28
Brent, C. 7:19
Breteuil Foundry 10:10,27
Bridouillet, Jean 10:25,29
Brightling 8:20
Brightling Forge 6:19,34
Brightling Furnace 6:37
Brinklaw Forge 6:38,39
Bristow, Fawlkner 7:18
British Library 6:7
Broadhurst 7:36
Broadhurst Manor 6:3; 7:20
Brookes, Robert 8:24
Broomfield 7:2
Browne, John 8:18
Browne, Martha 8:18
Browne, Thomas 9:37
Bucher, Alexander 8:35
Bucher, Alice 8:34
Bucher, Joan 8:35
Bucher, John 8:35
Bucher, Thomas 8:34
Buckhold Furnace & Forge 6:36,37
Buckhurst, Lord 6:11,13,14,15,20,26,31
Budgell Forge 6:34
Budgen (cartographer) 6:45
Bullen, George 6:11,31
Bullyn, George 6:30
Bunce's Gill 9:5,6
Bungehurst 6:47
Bungehurst Furnace 6:48
Burwash 6:10,17; 8:12,21
Burwash Furnace & Forge 6:19,22
Butler, D. 9:19
Butler, J. 8:7
Buxted 6:32
Buxted, Little Forge 6:15,32

Caen, Jean de 10:21
Candeville, Jean de 10:19,27
Cannon ball 6:6
Cannon foundry 10:10
Cannon, boring 7:33
Canonne, Pierre de 10:21
Cansiron Forge 6:38,39
Cansiron, Great 7:21
Canterbury, Archbishop of 6:46
Cantiaci 7:28
Carpenter, John 6:38
Carson, Gilbert 6:18
Cast iron graveslabs 8:12
Cauffilde, John 6:28
Caulfield, John 6:21
Clery, Pierre de 10:26
Chalenr, Nynion 6:28
Challynor, Francis 6:29
Champion, Henry 6:42
Charcoal 10:11
Charleton, William 7:21
Chatfield, Robert 9:31

Chausée 10:8
Cherford Forge 6:29
Chichester 7:28
Chiddingly 6:32
Chiddingly Forge 6:32
Chiddingstone 8:16
Chiddingstone, graveslabs 8:16
Chingley Forge 7:17; 9:14
Chingley Furnace 6:41
Chitcombe 7:28
Chitcombe, bloomeries 9:4
Chitcombe, Romano-British 8:2
Chorley, Robert 9:4
Churchill, John 9:27
Cinder Hill Farm 6:3
Cinderbank Shaw 7:27; 9:4
Cindrills 8:2; 9:4
Clare estate 6:53
Clery, Francois de 10:26,31
Clery, Pierre de 10:25
Clipperham Furnace 6:35
Clouet, Jean 10:24
Clutton, Mr. 7:18
Clutton, Rev. Ralph 9:27,31
Clutton, William 7:35; 9:27
Clutton, Wm. 7:36
Coal 7:33
Cocking Foundry 9:2,4
Cocking Tithe Map 1840 9:3
Coffyn, John 6:50
Colepeper, Thomas 9:18
Colgate 9:17
Collegium fabrorum 7:28
Collins of Brightling 8:32
Collins, family 8:21
Collins, John 8:21
Collyns, John 6:17,20,36
Collyns, Steven 6:38
Collyns, Thomas 6:36
Colman, Simon 6:17,20,36
Combes, D. 7:38
Combes, Mrs.P. 7:16
Compton, Katherin 8:46
Condé, Princess of 10:25
Conserving iron objects 9:19
Cooke (?), Peter 9:34
Cooper's Bridge 6:42
Coppice wood 6:50
Copthorne Forge 6:31
Copthorne Furnace 6:31
Coq, Oudin Franc 10:22
Corbie, Renaud de 10:20
Cornford, Robert 9:35
Coster's Brook 9:2
Couet, Jean 10:32
Council, Privy 6:8
Courthope 8:36
Courtlands Farm bloomery 10:2
Covert, Richard 6:29
Cow Park 7:30
Cowden 8:17
Cowden Furnace 6:38,39
Cowden, graveslabs 8:17
Cranbrook 6:39
Cranbrook Furnace 6:38
Cranbrook Furnace/Forge 6:41
Cranley Forge 6:16,26,27,31
Crawley 8:8; 9:2
Crawley (High Street) bloomery 8:8; 10:2
Crawley, Blackwater Green 9:10
Cripp's Corner 7:30
Cripps, Christopher 7:16
Crittenden, Goddard 9:34
Croixdalle Forest 10:11
Crowborough Forge 9:33
Crowhurst 8:19,21
Crowhurst Forge 6:36,37
Crowhurst Park 7:28
Crowhurst Park bloomery 7:24
Crowhurst, (Surrey) 8:12
Cruckford Forge 6:28
Cruckford Furnace 6:28
Cruckford Forge 6:29
Cruckford Furnace 6:29
Cuckfield Forge 8:9
Cuckfield Furnace & Forge 6:29
Culpeper, Sir Alexander 6:14,18,38
Culpepper, Elizabeth 8:46
Culpepper, Sir Edward 8:46
Culpepper, Sir William 8:41
d’Acher Forge 10:29,30
Dacre, The Lord 6:35
Dallendine 6:40
Dallington 9:5
Dalyngton, William 6:46
Danehill 8:7
Danehill Manor 7:20
Darvold Furnace 6:34
de Clery, Francois 10:25
de La Folie, Marion 10:21
de Leon, Boi de 10:11
Denmark 6:17
Derby, Earl of 6:11,29
Devils Gill bloomery 6:53
Dick, Thomas 6:16,40
Dieppe 10:11
Donmolle, Nicholas 8:38
Dorell, Christopher 6:17
Dorndale Forge 6:41
Dorrell, Christopher 6:40
Douille, Aubery 10:31
Downland Estate 6:6
Dudgin, John 6:50
Duffield of Grynsted 6:18
Duffield 6:31
Duffield, John 6:27
Duffilde, John 6:30
Dummoll, Helen 8:36
Dummoll, Joseph 8:36
Dunsfold Forge 6:26,27
Durhamford valley 7:25
Durrant, Samuel 9:31
Eade, Jonathon 9:28
East Grinstead 8:6,12,22
East Grinstead church 8:20
East Grinstead Forge 6:30,31
East Grinstead Furnace 6:30,31
East Sussex Record Office 7:35
East Sussex Ware 7:30; 8:6
Eawy 10:11
Echingham Furnace 6:37
Edwards, D. 10:3
Egles, Gabriel 8:33
Ellys, Thomas 6:34
Elrington, Mr. 6:40
Erfield, John 6:21
Etang-de Bray Furnace 10:9
Etchingham 6:11
Etchingham Furnace 6:36
Eu 10:11
Evans, T.E. 8:9
Everffield, John 6:21
Ewhurst Furnace 9:18
Extraction of iron ore 7:35
Fairlight bloomery 8:10
Faulconer, Agnes 8:46
Faulconer, Henry 8:46
Fernhurst Furnace 6:3
Feron, Henry le 10:20,21
Ffarmor, Alexander 6:32
Faukner, John 6:32
Field Archaeology Unit 6:3; 9:10
Fletching Forge 6:13,27
Folie, Guillaume La 10:21
Fonderie 10:7
Fondeur, Pierre le 10:20,21
Footland Wood 7:27
Footlands 7:24,25
Footlands bloomeries 8:7,8; 9:4
Forges 10:9
Forges les Eaux 10:24
Forster, Anne 8:19
Fourneau Furnace 10:21
Fowle 6:47
Fowle, Nicholas 6:15,46
Fowle, Nycholas 6:38
Fowles 8:23,24
Fowles of Frant 8:32
Fowles, Nicholas 8:34
Framfield 6:32,46
Francis I 10:10
Franke, John 6:50
Franquimont 10:20
Frant 6:38,39,46; 8:23
Frant Forge 6:11,27,40,41
French, John 6:32
Frenchy Furnace 10:8,30
Freshefelde Forge 6:33
Freshfield Forge 6:32; 7:20
Fry, Guillaume de 10:31,32
Fry, Robert de 10:32
Fulper 7:14
Fuller, John 10:6
Funnell, B. 8:10
Funnell, Stephen 9:34
Furners Green 8:7
Fyner, Henry 10:8
Fysher, Edmond 6:42,43
Fysher, Peter 6:42,43
Gage, John 6:31,33
Gage, Lady 6:31,33
Gaillefontaine 10:13
Gallois, Dr.R.W. 7:4,9
Garden Hill 8:4
Gardener 6:27
Gardener, John 6:16,18,39
Gardiner, M. 10:2
Gardner, John 6:26
Gascoing, Pierre 10:32
Gastons Bridge Forge 6:28,29
Gayne, John 6:48
Gaynsford, Thomas 8:19
Gazetteer, Index to 7:38
Gentills Copse 6:43
Geological Survey 7:4
Gerard 10:31
Gerard, Charles 10:7
Gifford's Gill 9:5,6
Gillet de Fontaines 10:28
Giles, L.C. 6:44
Gisors 10:10
Glide, Thomas 6:34
Glinay 10:13,16
Glinay Furnace 10:8
Glinay Furnace & Forge 10:25
Gloucester Furnace 8:32,42
Goodwin, Charles 6:50
Gorringe, Edward 7:16
Gostwyke, Roger 8:38
Gott, Elizabeth 8:32
Gott, Martha 8:32; 9:9
Gott, Maximilian 8:32
Gott, Peter 8:32; 9:9
Gott, Robert 8:32
Gott, Samuel 9:9
Gott, Thomas 8:32
Gott, Wm. 8:32
Goudhurst Furnace 6:39
Gournay en Bray 10:10,22
Gower, Peter 8:28
Gratwick, Roger 6:21,28
Gratwick, Thomas 6:16,17,27
Graveslab, cast iron,
earliest 8:21
Graveslabs outside Weald 8:47
Graveslabs, cast iron 8:12
Gravetye Furnace 7:35; 9:27,29
Graye, Richard 8:43
Great Cansiron Farm 6:56
Great Sprays farm 8:28
Greene, Richard 6:20,36
Gresham, Sir Thomas 6:14,17
18,20,26,39
Grigg's Gill 9:5
Grinstead Wood 7:6
Growte, William 9:34
Grubsbars 9:36
Grubsbars Forge 9:33
Halffield Forge 6:29
Hamilton, Ms.S. 7:30
Hamsell Furnace 6:32,33; 8:44
9:29,35
Hartfield 6:31; 7:21; 8:24; 10:2
Hartfield Forge 9:33
Haselden, Francis 8:22
Haselden, John 8:22
Haslemere 6:18
Haslemere Archaeological
Group 6:4
Haslemere Furnace & Forge 6:27
Hastings (rape) 6:47
Hastings Area Archaeological
Research Group 9:7
Hastings Museum 8:4,7,10,23
Hastings Subsidy Rolls 6:45
Haut Bray 10:12
Havse, Edward 8:31
Hawkhurst Furnace/Forge 6:41
Hawksborough Hundred 6:45
Hawksden Forge 6:45
Haye, Thomas 6:36
Headley 6:42
Heathfield 6:46,47
Heathfield Furnace 6:34,41; 10:3
Heathfield Furnace/Forge 6:41
Heathfield minepits 7:14
Hebden, Godherd 9:18
Hedgcourt Forge 6:31
Hedgcourt Furnace 6:31
Hedgecourte Forge 6:30
Hedgecourte Furnace 6:30
Hedges, medieval 6:56
Hellet 10:11
Hendall Furnace 6:32,33
Herbert, B. 6:52; 9:5,19
Herrings bloomery 9:7
Heuze, Jean 10:25
Hynes, Thomas 6:42
Hiesse, Jean 10:25,26
Hoath Wood 8:2,4
Hockham, William 6:50
Hodgeng Forge 10:13,28
Hodgeng Furnace 10:27
Hodgkinson, J.S. 6:3,30,42,49
7:25,35; 8:2; 9:2,12,27; 10:2,3
Hodley Furnace 6:30
Hodshon, Robert 6:32
Hodson, James 9:18
Hogge, Ralph 6:8,15,18,20,30,48
Holdeley, Edward 9:34
Holdeley, John 9:34
Holland, Ann 8:37,38
Holland, David 8:37,38
Hollingbourne 10:15
Hooke 6:42,43
Hooke, Henry 6:43
Hooke, John 6:43
Horsepasture Wood 6:49
Horsham Museum Society 6:3
Horsmonden 8:12,18
Horsted Furnace 6:33
Horsted Keynes 9:30
Horsted Keynes bloomery 6:3
Horsted Keynes Furnace 6:3,32
7:30
Horsted Keynes, Manor of 7:20
Houel, Guillaume 10:28
Houghton, John 8:26,27
Houghton, R.G. 7:21; 9:7,12; 10:3
Houghton, Thomas 8:26
Houghton, Walsingham 8:26
Howbourne Forge 6:32; 7:16; 9:30
Hudson, Thomas 9:35
Hué, Nicolas 10:25
Hué, Nicolas called Le Blanc 10:27
Hugessen, William 8:32
Huggens (Huggetts) Furnace 6:15
Huggetts Furnace 6:32
Huton, George 9:34
Ifield Furnace & Forge 6:29
Iles Forge 10:32
Infeld, Katherine 8:46
Infeld, Richard 8:45, 46
Iridge Furnace 8:31
Iron (conservation of) 9:19
Iron Graveslabs 9:9
Iron ore, extraction of 7:35
Ironworks, 1574 lists 6:7
Isenhurst 6:47
Isted 6:48
Isted, Agnes 6:46
Isted, Alice 6:46
Isted, Eleanor 6:46
Isted, Elizabeth 6:46
Isted, Joan 6:45, 46, 47, 48; 10:27
Isted, Richard 6:45, 46, 48
Isted, Thomas 6:34, 47
Itcheingham Forge 6:34
Iwood Furnace & Forge 6:40, 41
Jeffrey, Bartholomew 6:36
Jerratt, Charles 10:7
Jervys, Thomas 9:36
Kemp's Wood 7:25
Kemp, Henry 8:42
Kemp, John 8:42
Kenworth, Thomas 9:34
Kingswood 7:2
Knight, Robert 6:42; 9:27
La Caille, Toussaint 10:22
La Fonderie 10:22
Laboratory, Ancient Monuments 7:31
Laffineur, Hennedric 10:20
Lambard alias Lambert 6:16
Lambard, John 6:26
Lamberhurst 6:46
Lamberhurst Forge 6:38, 39
Lamberhurst Furnace 8:32
Lambert, Guillaume 10:31
Langles Forge 8:50
Langles Furnace 8:48
Langley, John 10:28
Langlois, Colin 10:28
Langlois, Jean 10:22, 28
Laurence, Giles 6:45
Le Batier, Thibault de 10:19
Le Caron, Clement 10:28
Le Grousset, Pierre 10:24
le Havre 10:11
Le Maurre, Marin 10:26
Le Mont Louvet Furnace 10:22
Le petit vivier, River 10:19
Le Pont du Fayel Furnace 10:24
Le Roy, Charles 10:31
Le Vaumain 10:28
Leche, Richard 6:39
Leeche, Mr. 6:13
Legas, John 8:42; 9:30
Legas, Judith 8:42
Lenard fireback 10:32
Lenham 7:2
Lenham Heath 10:15
Les Bonhommes 10:21
Levett, Parson 10:7
Levett, William 9:36
Levitt, Francis 6:50
Lewknor, Joan 7:20
Lewknor, Nicholas 7:20
Lewknor, Sir Roger 7:20
Library, British 6:7
Lienart, Robinet 10:22
Lingfield Furnace & Forge 6:31
Little Buxted 7:16
Little Buxted Forge 6:32
Little Forge (Buxted) 6:15
Loder, R. 5:4
Lombardics 8:21
Long Wood 7:25
Louvet, Jean 10:22
Lucas, Jean 10:32,33
Luck, Ann 8:42
Luck, Edward 8:41
Luck, Elizabeth 8:41
Luck, George 8:42
Luck, John Wells 8:42
Luck, Mary 8:41
Ludshott Common 6:6
Ludshott Court Rolls 6:43
Ludshott, Manor of 6:42
Mackrells Farm, Cuckfield 8:9
Maister, Gautier 10:31
Maixence, Francois 10:21
Maixence, Jehan 10:21
Maixence, Robechon 10:21
Malerbe, Henry 10:20
Malhortie, Jean 10:26
Maloringuen, Vienne de 10:24,27
Manoir, Guillaume du 10:28
March, Richard 6:16,17
Marchant, George 9:34
Marchant, John 9:34
Marche, Richard 6:26,27
Maresfield 8:24,48
Maresfield Forge 6:32; 9:30
Maresfield Furnace 6:32
Marshalls Forge 6:30
Marshalls Furnace 6:30,31
Marshalls Furnace/Forge 6:20
Maryan, John 6:45
Maximilian, William 8:32
May 8:33
May, George 6:34
Maye, Thomas 6:11,36
Mayfield 6:45,46,47; 8:25; 10:3
Mayfield Forge 6:34,36
Mayfield Furnace 6:26,27,45
Maynard, Richard 8:44; 9:34,35
Maynards Gate Furnace 6:15,32
Meades, Mrs. D.M. 8:48
Meaulx, Nicolas de 10:26
Mercer, Elizabeth 8:19
Mercer, William 8:19
Merteyley, John 6:46
Michael, Mr. 6:31
Michelbourne, Richard 7:20
Middellton, Allexander 9:34
Middleton, Arthur 6:15,32
Millplace Furnace 6:30,31
Mills, John 8:24
Milly Furnace & Forge 10:19
Minepit 6:54
Minepit Wood 6:54,55
Minepits 7:3
Minepits, radio-carbon dates 6:54
Minepits, Roman 6:54,56
Moate Mill 6:45,47
Moate Mill Forge 6:45,48
Moaze (Engr. & Millwright) 9:4
Mone, John 6:46
Mont-Louvet, River 10:9
Montague, Lord 6:11,14,18,20,26
Mooreforest Forge 6:29
Mooreforest Furnace 6:29
Morette, River 10:23
Morley, Anthony 6:32
Morley, Thomas 6:45
Mould, Ms. Q. 8:7
Muddell, Alexander 9:34
Muddell, Samuel 9:34
Munsfilde Forge 6:36
Museum, Hastings 8:4,7
Nether Forge 6:36
Netherfield Furnace 6:36,37
Neufchatel 10:16
Neufchatel en Bray 10:27
Neufchâtel Furnace 10:33
Neuville-Ferrières 10:7
Neuville-Ferrières Forge 10:10,27,30
Neuville-Ferrières Furnace 10:30
New House Farm, Smarden 9:7
Newbridge 6:46
Newbridge Forge 10:7
Newbridge Furnace 6:28,29,48
Newcomen engines 7:33
Newick bloomery 10:3
Norden, John 9:27
Norden, Mr. 7:18
Northchapel furnace & Forge 6:19,26,27,27,29
Northumberland, Earl of 6:27
Norton, Mr. 9:30
Nysell, William 6:46
Oaken Wood 7:36
Oaklands Park 7:28, 30
Old Mill Furnace 6:47, 48
Oldlands furnace 9:36
Ordnance, Board of 6:43; 7:33
Ore, sources of 9:5
Owlsbury Farm 7:2; 8:6
Owlsbury Farm bloomery 8:6

Pachoult, Pierre 10:28
Pain's Wood 7:36
Paine, J. 7:2
Palmer, Sir Thomas 9:35
Palor, John 6:32
Panningridge Furnace 6:38 9:5; 10:7
Parforge Forge 6:30
Parker, John 6:19, 35
Parrock Furnace & Forge 6:11, 31
Pashley 8:33
Passfield 6:42
Payne 6:31
Pays de Bray 10:7
Pays de Bray, geology of 10:12
Pays de Caux 10:15
Pays d'Ouche 10:10, 27
Pearce, William 7:35
Peckham, Eleazer 8:30
Peckham, Martha 8:29
Peckham, Mary 8:29
Peckham, Silvester 8:30
Peckham, William 8:29

Pedley, Robert 6:14, 23
Pelham, Anthony 6:45
Pelham, Sir John 6:19, 35, 37
Pen Ponds 8:9
Pengree, Mr. 7:18
Penhurst 8:28
Penhurst Forge 6:38
Penhurst Furnace 6:39
Penvold, John 7:16
Petley Wood 6:54
Pettitt, J. 8:53
Petworth 6:18, 19, 31
Petworth Forge 6:27
Petworth Furnace 6:27
Petworth Furnace & Forge 6:18
Pevensy (rape) 6:47
Phillips, John 9:37
Picardy 10:15
Piquet, Louys 10:25, 31
Piper, Elizabeth 8:20
Pippingford 7:30
Pippingford Furnace 8:50
Place, C. 9:10
Plashett Park 6:46
Playstead, Elizabeth 8:43
Pook, R.O. 9:18
Pooke, John 9:18
Pooke, Suzan 9:18
Pope, Nicholas 6:32
Pophall Furnace 6:26, 27
Pophole 6:42
Pophole Furnace & Forge 6:42
Porter, Frances 8:41
Porter, John 6:11,18,27,36,46
Porter, Thomas 8:41
Poste, Danyell 9:34
Poste, Moyses 9:34
Postern Forge 6:52
Pottery, medieval 9:2
Pottery, Samian ware 7:31
Pottery, East Sussex ware 7:30
Poulssin, Jehan 10:21
Pounley Furnace 6:32
Price, J.B. 8:53
Priory Furnace 6:19
Privy Council 6:8
proof bank 6:6
Purbeck Beds 7:3
Quenel, Jean de 10:29,30
Quenel, M. de 10:32,33
Raby & Co. 7:35
Raby, Edward 7:18,27
Radio-carbon dates,
minepits 6:54
Rainvilliers 10:15,16
Rainvilliers Furnace/Forge 10:19
Rats Castle Forge 6:52
Relfe, John 6:36
Relfe, Mr. 6:13,27
Relfe, William 6:34
Reynold, Robert 6:30
Ridge Hill bloomery 8:6
Rivenhall, Essex 9:9
River Brede 7:30
River Tillingham 8:2,4
Riverhall Furnace 8:24
Roberts, Peter 6:48
Robertsbridge & Dist. Arch. Soc. 7:27
Robertsbridge Forge 10:7
Robertsbridge Furnace & Forge 6:38
Robertsbridge ironworks 6:47
Roffey medieval bloomery 6:3
Romesay, Bartelmew 9:34
Rother, River 6:45
Rother, River (Eastern) 6:47
Rotherfield 6:32; 8:6,12,28
Rouen 10:11
Rouge Eau 10:21
Rowfant 6:50
Rowfant Estate 6:49
Rowfant Forge 6:31
Rowfant Supra 6:50
Rowfant Supra Forge 6:49; 8:11
Royal Arsenal, the 9:27
Roye, Chevalier de 10:25
Rudling, D.R. 7:30; 8:4,6
Russel, Nicholas 8:20
Russell, John 9:34
Salehurst 8:29
Salehurst Forge 6:35
Samian ware 7:31
Sampford Courtenay 8:38
Sandal, leather 7:31; 8:7
Sands, Thomas 8:25,27
Saunders, Ann 8:39,40
Saunders, John 8:39
Saunders, Nicholas 8:37,39,40
Saunders, Philadelphia 8:39
Saunders, Sarah 8:32
Saunders, Thomas 8:32,35
Saxby, Mr. 7:18
Scott, Ms.A. 9:7
Sedlescombe 7:25,28; 8:31
Sedlescombe Bridge 7:30
Sharpthorne 6:55
Sharpthorne brickworks 6:54
Sharpthorne minepits 7:24
Sheere Forge 6:40,41
Sheffield Forge 6:13,15
Sheffield Furnace 6:26
Shillinglee Forge 6:29,31
Shillinglee Furnace 6:18,29,31
Shoyswell Hundred 6:45
Sidney, Sir Henry 6:20,38
Sidney, Sir William 10:7
Slaugham Forge 6:29
Slaugham Furnace 6:29
Sliders Farm bloomery 8:7
Smallman, John 7:16
Smarden bloomery 9:7
Smith, John 8:38
Smith, Mary 8:38
Smith, P. 10:3
Smith, Thomas 6:31
Smith, Zacha 8:38
Smyth of Petworth 6:18
Smythe, Thomas 6:18,21,28
Smythford 7:30
Snape Wood 8:5
Societe miniere de Bray 10:10
Socknersh Furnace 8:21
Southfrith 6:53
Sprandel, R. 10:7
St. Leonards Forge 6:28,29
St. Leonards Furnace 9:12
St. Leonards Furnace &
Forge 9:16
St. Leonards Lower Forge 9:12
St. Paul, Abbey of 10:20
Stace, John 6:15,17,30; 9:37
Stace, Thomas 9:37
Standford Furnace 6:42
Stapleton, J.H.D. 6:54,56
State Papers Domestic 6:7
Ste-Radegonde Furnace 10:8
Stevens, Edward 9:34
Stevens, Jonathon 8:30
Stevens, Lucy 8:30
Stilian, Richard 9:18
Still, Mary 8:18
Still, Richard 8:18
Stoker, Nicholas 9:34
Stokenoe Furnace 6:37
Stokens Furnace 6:36
Stollion, John 6:21
Stollyon, Thomas 6:19
Stolyon, Thomas 6:34
Stowe manuscripts 6:7
Straker, E. 8:10
Streat 8:32; 9:9
Streater, Henry 6:43
Streatfeild, Henry 8:16
Streatfeild, Richard 8:16
Strudgate Park Furnace 6:29
Suchfield, M. 9:9
Surrey, Earl of 6:11
Surrey, Lord of 6:29
Sussex Weekly Advertiser 9:30
Sutton, Rev. C. N. 8:24
Swift, G. 6:54; 7:3, 21

Tancarville, Compte de 10:24
Tebbutt, C. F. 6:2, 55; 7:4
Teesdale, E. 6:7
Teledyne Isotopes 7:4
Templier, Robert du 10:28
Terwitt, Sir Robert 6:35
Therain, River 10:19
Thomassin Le Couroyer 10:28
Thorpe 6:31
Thorpe, John 6:30

Ticehurst 8:33; 9:5
Tidebrook bloomery 10:3
Tile, imbrex 8:4
Tile, tegula 8:4
Tillingham, River 8:2, 4
Timp irons 10:7
Tinsley Forge 6:28, 29
Todman, Thomas 9:30
Tonbridge Forge 6:20
Tonbridge Furnace & Forge 6:38, 39
Topley geological survey 7:3
Tottingworth 6:47
Trotton 6:42
Tryme, Henry 9:34
Tudeley 6:52
Tudeley bloomery 6:53
Tugmore Shaw 7:21
Tuyeres 8:4
Tyler 10:31

Upper Parrock bloomery 10:2
Vaumin Furnace & Forge 10:22
Verdley Wood Furnace 6:4
Vienne Forge 10:32
Viviers 10:9

Wadhurst 6:46; 8:34
Wadhurst Clay 7:28; 9:5
Wadhurst Furnace & Forge 6:38
Walcott, John 9:34
Waldern (Waldron) Furnace 6:19
Waldern Priory Furnace 6:34
Waldron 6:32
Waldron Forge 6:19
Waldron Furnace 6:19; 9:29
Waller, Richard 6:33
Walloon Forge 10:7
Walpole, William 6:18,19,27
Warbleton Forge 6:34
Warbleton Furnace/Forge 6:41
Warbletyne (Warbleton) Forge 6:19
Ware, East Sussex 8:6
Warren Furnace 7:35
Wathe Forge 6:31
Webb, William 6:16
Welche, Robert 6:35
Welles, Edward 9:34
Wellingham 7:16
Wells, John 6:33
West Hoathly 7:3; 8:45; 9:47; 10:2
Western, Elizabeth 9:9
Western, Frances 9:9
Western, Martha 9:9
Western, Mary 9:9
Western, Maximilian 9:9
Western, Robert 9:9
Western, Samuel 9:9
Western, Sarah 9:9
Western, Thomas 9:9
Western, Thos. 8:32
Western, William 9:9
Westminster Denization Roll 6:45
Weston, Michael 6:20,38
Wey, River 6:42
Whathington Furnace 6:37
Whitfield, John 7:16
Whitfilde, Robert 6:30
Whittick, C. 7:19
Wickersham, Thomas 8:23
Wicks, Richard 6:16,36
Willard, Davy 6:20,38
Willatts, Ms.R.M. 8:12; 9:9
Wilton, William 9:28
Winchester, Bishop of 6:42
Withyham 6:46; 8:12,43,44
Withyham Furnace & Forge 6:36
Withyham, History of 8:24
Woddy, Robert 6:38
Wood, coppice 6:50
Woolbridge Forge 6:47
Worssam, B.C. 6:55; 7:3; 8:4; 10:12
Worth Forest 6:11
Worth Forge 6:30
Worth ironworks 6:47
Wykes, Richard 6:21
Ye Olde Six Bells (P.H.) 8:20
Younge, Michael 9:18