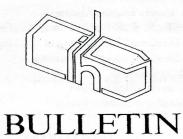
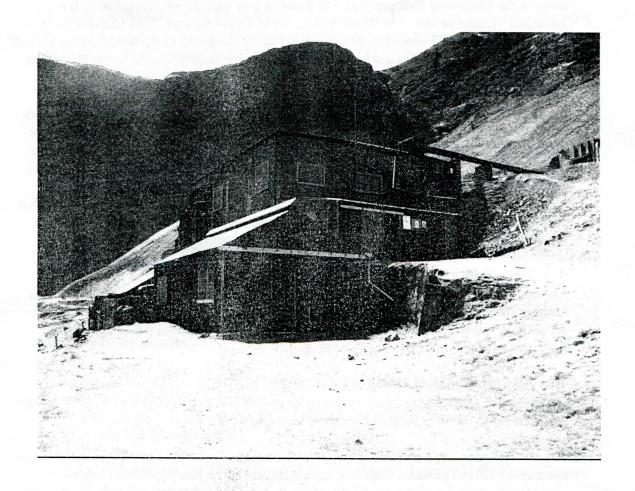
Cumbria Industrial History Society



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**APRIL 2010** 

No. 76



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## **EDITORIAL**

Here we go for another year. A couple of people have asked where the picture on the front of the December Bulletin was. For those of you who do not recognise it, it is Smardale viaduct on the now closed Stainmore to Tebay railway. This editions photo is Force Crag Mine in Coledale near Keswick. Finally the photo competition on the back of the December Bulletin was the upper coffin level at Yewthwaite mine in the Newlands valley.

The process of digitalising Mike's slides is making slow progress. The Heritage Lottery bid is taking a little more work than was initially appreciated. But in the mean time we have made applications to a number of smaller trusts, charities and other organisations and a number of small donations have arrived or should arrive shortly. With the money put in by the Society and that raised from the CDs of Mike's material the small committee does feel that we can now make a start on the cataloguing o the slides. A flier is enclosed with this Bulletin for anyone who feels they would like to help with this to register an interest. Also there will be a display at the conference showing what is involved.

Although Mike was very particular about labelling slides etc. there does appear to be a number coming to light which are not labelled sufficiently for us to identify them accurately. Two photographs of paintings are shown in this Bulletin and again at the conference there will be others we need identifying.

This years programme is now going according to plan and I hope you will support the committee by attending as many meetings as possible. A large amount of work goes into these meetings and it is nice when a good number of people turn up for them.

There is a place on the committee for anyone who fancies helping to run the society. It is not a very onerous position with four meetings per year in Kendal. What we need is people with ideas for visits, conferences etc. So why not volunteer and help your Society.

Next year will see our 25<sup>th</sup> April conference we intend to mark this with a special occasion. Any ideas for venue subjects and speakers would be gratefully received.

## **CIHS ACTIVITIES IN 2010**

# Saturday 24<sup>th</sup> April Annual Spring conference. 9.30 am University of Cumbria Ambleside

This years topic is burning rocks with talks on early lead smelting, Nenthead smelt mill, copper smelting and limestone burning.

Places still available please contact J Matthews.

## Saturday 8th May 10.30 a.m. Lime Kilns in the Craven Area led by David Johnson

Everyone should meet up in the Community Centre car park in Ingleton but not pay for a ticket until we have sorted out car sharing from there onwards, as some cars can park at the first site. The Community Centre is at SD 695 731, in the centre of the village. Coming from the M6 end, take the first left turn into the village from the A65 and follow that road as far as the railway viaduct - turn right into the car park immediately before the viaduct.

Those cars staying at the CC will have to pay for a day's parking ticket or find a slot on a street (not easy at the weekend). What we will do is look at the Mealbank site first, then pass through one of my excavated sow kiln sites, which is by the roadside, have a picnic lunch somewhere round Ribblehead, then go on to the Craven Lime Works afterwards, finishing around 4pm.

Thursday 17<sup>th</sup> June 6.45 p.m. Witherslack Hall Farm buildings (listed Grade II) and machinery led by Mark Brennand, County Archaeologist.

Park near the entrance to Witherslack Hall at SD 436 859 If time permits we can visit the remains of a steam pumping engine and/or a medieval bloomery in the woodland.

Saturday 10th July 10.30 am Harrington Harbour walk led by Philip Ashworth.

Start at the car park on the south side of Harrington Harbour OS ref. NY 987 252. Packed lunch will be required.

Saturday 14<sup>th</sup> August 2010 Woodland industry, steam bus and Castle Head House.

A journey on a steam bus, preceded by a visit to Roudsea Wood to view relics of woodland industry, and followed by a visit to Castle Head, John Wilkinson's house.

Meet at Roudsea NNR car park SD 329827 at 10.30 10.30 – 12.30 Woodland industry sites in Roudsea Wood 12.30 –1.30 Lunch either packed or at pub in Haverthwaite

1.30-2.00 Steam Bus ride from Haverthwaite to Castle Head, stopping on route to inspect John Wilkinson's memorial obelisk

2.00 – 4.00 Castle Head House and grounds and refreshments

4.00 - 4.30 Return steam bus journey to Haverthwaite

Cost £13 per person to cover hire of steam bus and refreshments. MAXIMUM NUMBER 32 (Steam Bus Capacity) Still a few places left.

Please book early for this trip so that I can confirm details with the steam bus owner and Castle Head staff. To book ring Geoff on 01539 728605. Please send cheques to treasurer.

## Saturday 16<sup>th</sup> October 2010 Autumn Conference

This is to held at the Waves Centre in Maryport and will cover Maryport and West Cumbria subjects. Details next Bulletin.

## **NON SOCIETY EVENTS.**

Friends of Lancaster Maritime Museum are organising a trip to the Anderton Boat Lift on Saturday 17<sup>th</sup> July 2010. This will also visit the Lion Salt works at Nantwich. Details from Ken Broadhurst 015214 781604.

Ian Tyler is running his usual series of mine walks.

April 11<sup>th</sup> Wad mine and Honister
April 25<sup>th</sup> Threlkeld and Glenderattera
May 16<sup>th</sup> Greenside
June 6<sup>th</sup> Eagle Crag
June 27<sup>th</sup> Silverband
July 11<sup>th</sup> Dufton mines
August 15 Katelock
September 5<sup>th</sup> Elterwater quarries
September 26<sup>th</sup> Hartsop Hall
October 10th Goldscope and Yewthwaite
Details from the mining museum Keswick.

#### **ABSTRACTS**

The latest issue of the Notes and Records of the Royal Society contains an article on William Brownrigg's papers on fire-damps, which were published in 1741-2. The article can be downloaded as a pdf from this page:-

 $\frac{http://rsnr.royalsocietypublishing.org/content/early/2010/01/11/rsnr.2009.0058.abstract?papetoc}{}$ 

#### **USEFUL WEBSITES**

Mine abandonment plans can now be searched for online by both area and type of mine at.

http://www.bgs.ac.uk/nocomico/choose search.htm

#### **BOOK REVIEW**

The Metalliferous Mines of Cartmel and South Lonsdale – British Mining No 89 author Max Moseley, A5, Soft Back ,104pp+ii, 31 illustrations £12.00.

This is a much expanded and revised version of Moseley's 'The Metalliferous Mines of the Arnside-Carnforth Districts of Lancashire and Westmorland', published as a 32 page booklet by The Northern Cavern and Mine Research Society in 1969. The monograph covers both copper and iron extraction and has interesting references to monastic mining by Cartmel Priory and the Society of Mines Royal. Mining in the area was always overshadowed by the much more prolific iron mines of nearby Furness, although the author shows how early iron mining was influenced more by the availability of suitable woodland for charcoal than by the mineral deposits. In later years the iron ore was used as a high-quality pigment. One of the features of this monograph is a catalogue of the relevant sites together with several mine plans derived from surveys by the author and his colleagues of the short-lived Lancaster Cave and Mine Research Society

# <u>DESCRIPTIONS OF MANUFACTURING BUSINESSES, PREMISES, PROCESSES, AND PRODUCTS IN THE CARLISLE JOURNAL, ADDENDA 1801- 4</u>

Compiled by G. W. Oxley

Continued from the *Bulletin of the Cumbria Industrial History Society*, Nos. 54-5. As this project has progressed the criteria for inclusion have been relaxed in the light of experience. The material below was originally excluded but would have been included under the reviseed criteria

#### 573. Bleaching at Seberham Bridge

Two journeyman bleachers of good character and abilities will meet with suitable encouragement

Advertised for by Robson Clarke, *CJ* 119, 31 Jan. 1801

#### 574. Mill near Ravenglass

Muncaster Mill destroyed by fire on Tuesday night Editorial, *CJ* 121, 14 Feb. 180

#### 575. Twine spinning at Milnthorpe

Dissolution of the partnership of Cleminson & Todd by mutual consent. Advertised by John Cleminson and John Todd, CJ 126, 21 March. 1801

576. Woollen manufacturing at ?

Mary, widow of John Mayson will continue his business as before Advertisement, *CJ* 127, 28 March 180

577. Cotton printing at Wigton

Two persons called Routledge indicted at Quarter Session for stealing calico from the print field of Brumwell and Irvine Editorial, *CJ* 130, 13 April. 1801

578. Bleaching at Denton Holme, near Carlisle

On Sunday night last the bleach field of Messrs Joseph Stodart & Co was broken into and a quantity of bleached yarn carried away. The offenders, for whose apprehension a reward has been offered, have hitherto escaped detection Editorial, *CJ* 134, 16 May. 1801

579. Milling on the river Esk

Netherby Mills advertised for sale.

CJ 138, 13 June. 1801

580. ? at Dalston

A handy smith and turner capable of performing machinery work advertised for by Lamb, Hebron & Co.

\*\*CJ 141, 4 July. 1801\*\*

581. Woollen manufacture, dyeing and printing at Caldbeck

The business late under the management of John Saul, deceased, will in future be carried on in the same manner and to the same extent by his brother Isaac Saul who has hitherto been superintendent of the manufacturing department He will continue to make the approbation of the public his primary object and hopes the experience of several years may enable him to give satisfaction to his friends in the carding, spinning and weaving of woollen articles. John Dover who now acts in Isaac Saul's previous capacity will attend the markets hitherto frequented and receive and deliver articles for the said concern. All persons indebted to the concern should pay John Dover. At the several market towns where Mr Dover attends on account of the woollen factory he will gratefully await the favours of his friends and the public in the dyeing and printing business

Advertisement, CJ 151, 8 Sept.. 1801

582. Brewing at Brampton

One seventh share advertised for sale

CJ 151, 8 Sept.. 1801

583. Milling at Greyrigg near Kendal

While greasing the spindle Edward Holme injured his arm which required amputation Editorial, CJ 151, 8 Sept.. 1801

584. Slay making in Carlisle

William Smith thanks those manufacturers etc. who favoured his father with employment. He has removed from Wigton and will continue the business from his father's shop

Advertisement, *CJ* 161, 21 Nov.1801

585. Check manufacturing at Brampton

White yarn offered for sale by Clementson and Croser who are declining the manufacturing business. Apply to John Clementson or Thomas Corry at the mill

Advertisement, CJ 164, 12 Dec. 1801

586. Carding and spinning at Appleby

The establishment of a manufactory for the employment of the poor

CJ 165, 19 Dec..1801

#### 587. Calico glazing at Carlisle

Joseph Thomas gives thanks for past support and announces that in addition to his former business he has begun to size and dress hat linings which may be had either cut or in the piece. He also dies, callendars (either hot or cold) and presses all kinds of calico, muslins, etc.

Advertisement, *CJ* 176, 6 March 1802

#### 588. Manufacturing at Penrith

The insolvency of James Scott Advertisement, *CJ* 179, 27 March 1801

#### 589. Milling at Thursby

Water powered corn or grist mill Advertised for sale, *CJ* 180, 3 April 1802

#### 590. Weaving at Scotby

A byre lately converted into a weaving shop in a situation well calculated for the weaving and bleaching business

Advertised to be let by Ambrose Topping, CJ 192, 26 June 1802

#### 591. Bleaching at Cummersdale

A few nights ago the bleaching ground of Forster & Co was broken into and five pieces of calico carried off.

Advertisement, CJ 192, 26 June 1802

#### 592. Spinning rough flax at Roantrees near Bewcastle

Report of an accident at a mill lately erected by Robert Dodgson

CJ 211, 6 Nov. 1802

#### 593. Brick making at?

Brick makers sought for an unspecified brickworks

CJ 212, 13 Nov. 1802

#### 594. Dyeing at Denton Holme

Report that Robert Fisher, dyer, who for a length of time laboured under a most melancholy derangement of the intellect threw himself into the mill race a few yards from his door and was drowned

CJ 214, 27 Nov. 1802

#### 595. Horse mill

Suitable for a threshing machine advertised for sale advertised for sale by Langcake, M.Williams & Hodgson of Carlisle CJ 216, 11 Dec.. 1802

#### 596. Weaving at Wigton

Weaving shops and warehouse occupied by Isaac Pattinson & Co advertised to be let CJ 220, 8 Jan. 1803

#### 597. Rope making and ship building at Maryport

Rope walk near the Harbour and shipyard advertised to be let. Apply to Netherhall *CJ* 220, 8 Jan. 1803

#### 598. Dyeing in Cal; dewgate, Carlisle

Insolvency of Robert Penn

CJ 222, 22 Jan. 1803

#### 599. Flaxdressing in Bochergate, Carlisle

A fire at the premises of John Sowerby was extinguished with little damage CJ 223, 29 Jan. 1803

#### 600. Coalmining at Warnell Demesne, eleven miles from Carlisle

Report of a proposal by Lord Lowther to open a colliery and take the coal to Dalston by railway *CJ* 223, 29 Jan. 1803

#### 601. Hat manufacturing

Notice that Owen, Russell & Co have taken over William Nelson's premises CJ 230, 12 March. 1803

#### 602. Slay making in George & Dragon Lane, Carlisle

Campbell & Munro have commenced this business

CJ 233, 16 April. 1803

#### 603. Soap making in Whitehaven

Dissolution of the partnership of Richard Baker sr., John Langcake, and Richard Baker, jr. The business to be continued by Richard Baker, sr and Richard Baker, jr.

CJ 245, 2 July. 1803

#### 604. Stocking manufacture in Strong's Lane Carlisle

Thomas Marston, manufacturer and retailer has relocated to this address *CJ* 263, 5 Nov. 1803

#### 605. Weaving at Brampton

Last week a weaver on the employ of Messrs Ferguson of Carlisle was convicted before two magistrates of embezzling yarn or other materials which had been entrusted to him to work and committed to the gaol

CJ 266, 26 Nov.1803

#### 606. Muslin manufacture at Catcoates near Carlisle

Insolvency of Joseph Pattinson and assignment of assets to Edward Rothwell of Harraby, cotton spinner and James Painter, shopkeeper CJ 272, 7 Jan. 1804

#### 607. Weaving at Caldcots, near Carlisle

A dwelling house, weaving shops having a frontage of twenty nine yards and a depth of forty nine yards and situated on a small rivulet called Parron Advertised to be sold by the trustees of Joseph Pattinson, *CJ* 282, 17 March 1804

#### 608. Foundry in English St. Carlisle

R W & R Porter, plumbers & braziers have established a foundry for casting iron and brass CJ 287, 21 April 1804

#### 609. Manufacturing in Carlisle

Insolvency of James Beeby and assignment of assets to William Wood, manufacturer and Henry Hebron, gent CJ 288, 28 April 1804

#### 610. Windmill at Dryholme, near Abbey Holme

Joseph Huddart the proprietor was caught in the wheel and killed *CJ* 290, 12 May 1804

#### 611. Calico manufacture in Carlisle

Insolvency of William Armstrong of Stanwix

CJ 299, 14 July 1804

612. Flax dressing in Rickergate, Carlisle

John Vipond has been under the necessity of declining business in favour of Mrs May Hetherington & Son on account of his bad state of health CJ 302, 4 August 1804

## 613. Collieries and limekilns at Oakshaw and Haythwaite

Advertised to be let by Sir James Graham

CJ 307, 8 Sept. 1804

#### 614. Brewing at Wigton

Barnfoot brewery and its equipment advertised for sale CJ 311, 6 October 1804

#### 615. Milling at?

A young man who perfectly understands the management of a mill wanted. Details from Mr Dixon of Calthwaite

CJ 314, 27 October 1804

#### 616. Calico printing at Lampleugh Close, Carlisle

The remaining fourteen years of a twenty-one year term lease of a manufactory, buildings and dwelling houses late in the occupation of Mitchell, [...]wood, & Co., calico printers and now by Langcake, McWilliams, and Hodgson advertised to be sold or let *CJ* 321, 15 December 1804

#### 617. Foundry in Carlisle

Williams Parker & Co. Have completed the Phoenix iron and brass foundry *CJ* 321, 15 December 1804

## THE DEMISE OF RAIL MAKING AT WORKINGTON.

The last rail rolled at the Mossbay Mill was on the 25<sup>th</sup> August 2006.

The Long Rail Welding Plant continued to weld rails that were imported from France via Workington Docks and from other plants in the UK.

The Welding Plant closed on the 25<sup>th</sup> June 2009 when the last rail was welded. The last rail was shipped out on the 25<sup>th</sup> August 2009 to Eastleigh in Hampshire.

D W Powell

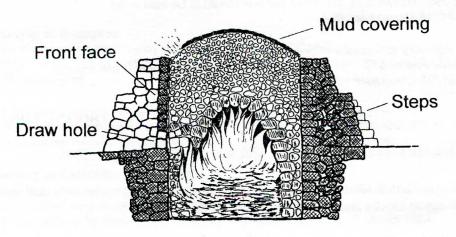
## WOODLAND INDUSTRIES OF MALLORCA

Sitting in a small square in Palma our morning coffee was disturbed by the clatter of the bottled gas deliveryman. His pickup was parked in the middle of the square and like a latter-day milkman he took the heavy bottles of gas to the houses and cafés around the square returning with the much lighter empties. The butane gas came in 12.5 kg orange cylinders. I had read that bottled gas had replaced charcoal as the main fuel for cooking

in the 1920s and that charcoal burning had been one of the woodland industries in the evergreen holm oak forests of the Tramuntana Mountains of North West Mallorca. Charcoal had been the preferred fuel for cooking as it was cleaner and gave a more even heat than wood. A pitstead is known locally as a "sitja" (pural; sitjes) and they are a feature of the oak forests.

June Parker in "Walking in Mallorca" describes how the 'carbonero' lived in the forest working his 'ranxo' from April through the summer. Cut logs were covered by gravel or clay and a burning could take ten to twelve days. Sieved earth rather than water was using to cool the charcoal. The charcoal was then taken by mule to special village shops. Lime burning was another industry of the mountains. Lime was burned in kilns, hornos de calc (Spanish) or forns de calç (Catalan) built of large stones. Parker describes how carefully chosen stones known as pietra viva (living stones) were used together with the thinner branches unsuitable for charcoal burning. A burn could take between nine and fifteen days with wood thrown in continuously. The lime was used for making mortar and the annual whitening of houses. The old proverb "Qui fa calc, va descalc" (He who makes lime goes barefoot) gives some indication as to the nature of the work.

## Cross-section of a lime kiln (After Miquel Fullana)

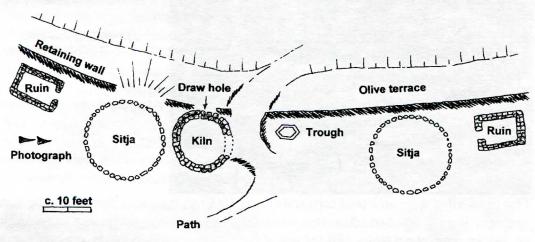


From the winding main road which skirts the mountains on the North West coast of the island paths climb up through the terraced olive groves into the evergreen holm oak forests. The best forest sites I found were on the Archduke's path which rises steeply south west of Deia.

The first site was on a terrace at about 500m above sea level at the top of a zig-zag track. It consisted of a lime kiln and two pitsteads together with a stone beehive oven and the remains of two shelters. The lime kiln was cut into the steep hillside. The circular pitsteads, also cut into the hillside, were 15 to 16 feet in diameter and were covered with a layer of bright green moss. The stone oven was about five feet tall. Nearby were low

walls, the remains of two small shelters. There was also a rectangular stone trough (approximately 6ft x 2ft) which had been carved into a limestone outcrop.

## Son Rul-lán Site

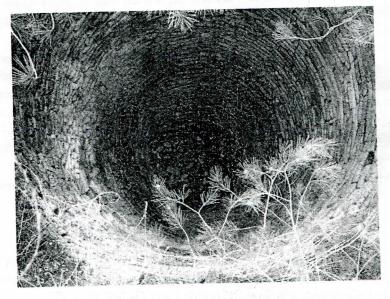


Land rises steeply to the south

A similar assemblage of features was found at a second site which was at about 450m at the head of the valley above the Son Rul-lán estate to the west of Deia. Here at the edge of the forest above the olive terraces were two pitsteads (sitjes), a large lime kiln, an hexagonal shaped stone trough and the ruins of two shelters. Limestone outcrops above the site may have been a source of pietra viva. A track led from the site back down the valley to Son Rul-lán. Here also the pitsteads were circular platforms, fifteen or sixteen feet in diameter, edged with stones and covered with bright green moss. The kiln was a substantial construction built of large stones, about ten feet in diameter and about twelve feet high on the up-slope side. The hexagonal stone trough was carved from a limestone boulder. The trough would have been a valuable store of water through the hot, dry summers and its construction perhaps provided a welcome diversion for the 'carboneros' or the lime burners.



Two draw kilns were also seen on a walk from Sóller to Port de Sóller just to the north of the Can Alfonso. The two kilns were substantially built in rough masonry and lined with fire bricks. They were about 18ft tall and about 8ft in diameter across the top of the pot. The draw holes were accessed through two arched chambers. Near by was a small limestone quarry at the same level as the top of the kilns.



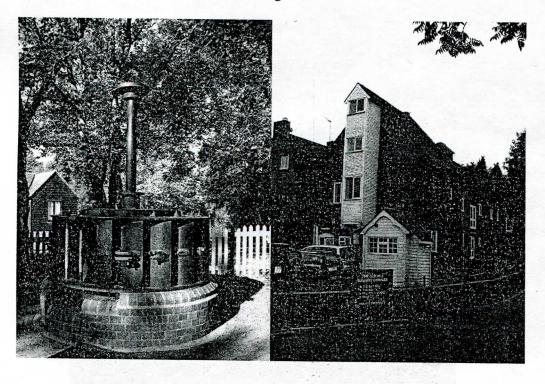
Interior of a draw kiln north of Can Alfonso

Finally a word of caution, footpaths are not always easy to find or follow and the concept of a right of way is not well-established. However, despite these local difficulties, there is much to explore.

[Reference: Walking in Mallorca, June Parker, Cicerone.]

#### MADE IN CUMBRIA: GILKES TURBINES

Turbines built by Gilkes of Kendal have featured in the *Bulletin* before. The 1886 example at Cragside in Northumberland was illustrated in No.54 (December 2002) and they were discussed in a conference report in No. 65 (August 1996). This note features two examples seen recently in Surrey. The first is now on display at the entrance to the National Trust owned Dapdune Wharf on the River Wey Navigation at Guildford. It was originally installed in Guildford Mill which was then used as a water pumping station. It was designed to generate 6 horse power (51kW) from the available six feet head of water. From 1952 power was provided by electricity and in 1990 the redundant turbine was rescued by the National Trust (Photograph No. 1). The second item remains *in situ* on a former mill, now converted to office use in Godalming Photograph No. 2 is a general view of the mill. The turbine can just be seen on the far right centre. Photograph No. 3 is a general view of the turbine showing how it was inserted into the former wheel pit and Photograph No. 4 is detailed shot showing the maker's name

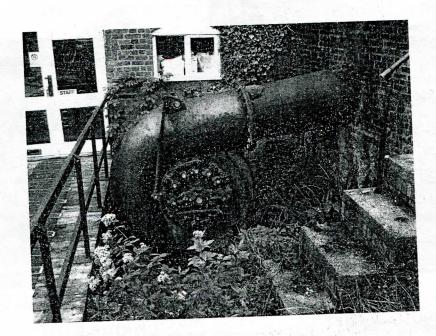


PHOTOGRAPH 1

PHOTOGRAPH 2



PHOTOGRAPH 3



PHOTOGRAPH 4

Geoff Oxley

## TWO UNLABELLED PHOTOGRAPHS FROM THE MDS COLLECTION

Below are two mystery photos from Mike's collection, they are in amongst some notes relating to Newland Mill near Ulverston. They are both photos of paintings: the larger and better quality one (PIcture 1) is signed 'W Fell 1908' in the bottom left corner and on the back 'Exhibit 7' has been written in orange pen. The other (Picture 2) is signed or has the word perhaps 'FLAN' or 'PLAN' in the bottom right corner, possibly cut off the edge of the picture.

If you have any ideas on the subjects please contact Dan Elsworth on 01229 587588 or <a href="mailto:dwelsworth@cooptel.net">dwelsworth@cooptel.net</a>





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