

# THE GREY SLATES *of the* SOUTH PENNINES

Report of a study into the potential to re-establish  
the roofing slate industry of the region

*by Terry G Hughes FIoR*

## **Volume Two: The Quarries & The Slates**



ISBN 1 85075 639 7

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# THE GREY SLATES

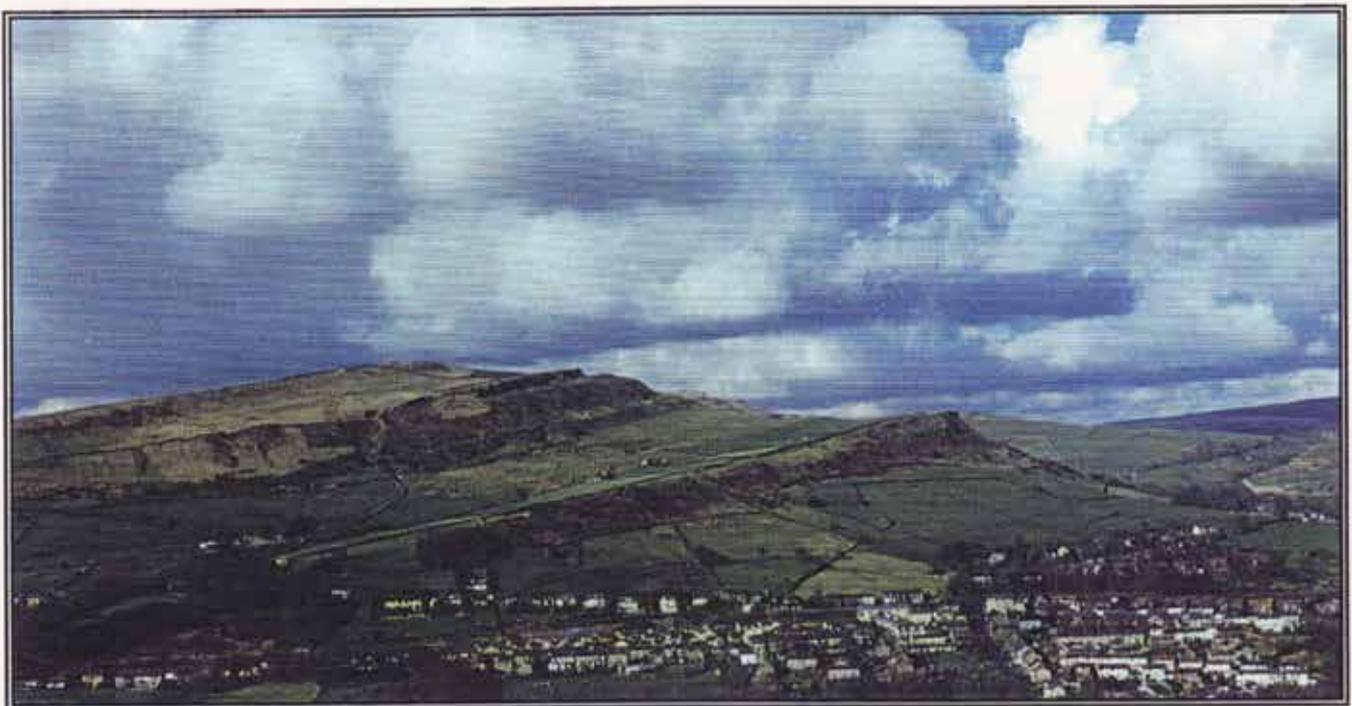
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# Contents

Preliminary research	1
Fieldwork	2
Data handling	3
Results	3
The slates	4
Potential sites for production	7
The quarry record sheets	10
Sub area summaries	14
Alphabetical list of quarries and page numbers	21
Quarry reports	25
Annexes	
The quarries alphabetically	2.1
Quarry locations listed by grid reference	2.2
Quarry locations listed by sub area	2.3
Quarries with slate or flagstone	2.4
Quarries corresponding to Farey's list	2.5
The complete database	2.6
Map of the region showing the sub-areas	2.7
Stratigraphic tables & geological references	2.8
Tables	
2.1 The proposed generic slate types	7
2.2 Basic distribution of the slate types	7
2.3 Quarries with slate or flagstone	9
2.4 The main rock units	Annex 2.8
2.5 Correlation with Fareys Grits	Annex 2.8
2.6 Lower Westphalian Sandstones	Annex 2.8
2.7 The Namurian sandstones	Annex 2.8

# The Quarries

This part of The Grey Slates of the South Pennines is intended to stand alone as a guide to the quarries of the region. In order to set the 163 quarry record sheets within a geographical and geological context it quotes extensively from the associated geological study<sup>1</sup> and M Stanley's review of Farey's stratigraphy. It also contains five listings from the quarry database.

## 1 Preliminary Research

1.1 During the earliest period of the industry its development would have been greatly influenced by the difficulties and cost of transporting a bulky and heavy product. Consequently production would generally have been very localised. Wherever suitable rock was exposed it would have been exploited perhaps to supply no larger market than the nearest village or even just one farmstead. As the industry developed and transport improved some quarries became large enterprises especially near areas of urban development.

1.2 In attempting to investigate the extent of the industry and the location of the quarries the researcher is faced with the daunting prospect of many quarries, perhaps 250 in the region, ranging in size from a few square metres and evident as no more than a shallow depression in a field, to excavations more than a kilometre long. It is fortunate therefore that earlier workers had provided a basis for the research. Foremost of these publications is Farey's *A General View of the Agriculture and Minerals in Derbyshire*. This provides two lists of quarries which were producing slates and flagging in the region in about 1800. Given that Farey's objective was to describe the scale of the industry the references for the sites of production were both useful in locating the quarries and, in retrospect, provided an impressively complete picture of the extent of the industry at that time.

1.3 Farey then, provided the starting point for the field work but fortunately in 1993 M. Stanley had reviewed Farey's list of slate sources<sup>2</sup> and for most of the locations he had been able to provide specific sites with map references. This work proved to be invaluable not only in reducing the time spent searching for quarries but also in providing an overview of their distribution in relation to the geology of the region.

1.4 The geology was, of course, the third source of information on the location of fissile rock. There is a long history of geological studies in the region and these have been published in the geological memoirs and as geological maps. A full list of publications consulted is provided in Annex 2.9 of this volume of the report. The formal review of the geological literature was carried out for the associated geological study<sup>1</sup> by Ian Thomas of the National Stone Centre.

1.5 Other useful sources of information included Ordnance Survey (OS) maps at 1:50 000 1:25 000 and 1:10 000 scales and facsimile reproductions of the first edition OS maps in the region. For a general overview of the region and for mapping of locations the OS Touring Map of the Peak District covered most of the study area. As part of the environmental impact study 1:25 000 Moor and Heathland maps were consulted.

1.6 Useful as the maps were, the variety of scales employed, especially in the geological maps was a cause of considerable difficulty and frustration.

1.7 Besides indicating the specific quarry sites the maps also provide place names such as Slatefield and Slatepit Dale which infer the presence of old quarries. Unfortunately place names persist longer than the activities they describe and many presumed sites have now disappeared without trace. This is particularly the case in the Coal Measures in the east of the region where opencast coal mining and the subsequent re-instatement has sometimes removed not only the quarry but the whole sandstone stratum.

## 2 Fieldwork.

2.1 The objectives of the fieldwork were to

- a) Locate quarries
  - b) Establish the local geological context of these quarries
  - c) Confirm the presence of fissile rock
  - d) Obtain samples of slate rock to establish the typical features including
    - colour
    - texture including grain size and features such as ripple marks
    - visible minerals
    - thickness.
- a) Assess the potential constraints on production including
    - overburden and the dip of the beds
    - access
    - environmental impact
    - social impact including visibility and proximity to housing
    - historical importance.

2.2 The searches were organised around the list of quarries obtained from previous studies but any indicators of previous workings were followed up as they were encountered. These indicators include disturbed ground either tips, excavations or old tracks and isolated plantations or copses often resulting from natural regeneration. It is surprising how sensitive the eye becomes to such “alien” features in the countryside even whilst travelling by car or scanning a wide area with binoculars. Because many old workings are overgrown it is an advantage to carry out such surveys when the trees are bare of leaves.

2.3 Assessment of the quarries was entirely qualitative. Eventually about 190 quarries were visited (not all slate producers) and there was neither time nor other resources sufficient to carry out quantitative work.

2.4 Similarly the production potential of the rock in terms of fissility and volume was based entirely on the exposed faces. Consequently the information in the quarry records should not be used as a basis for commercial activity without carrying out detailed assessments and explorations.

2.5 At the outset it was intended to include ownership of the land or the mineral rights for each quarry. It quickly became apparent that this would be a greater task than the field surveys and so it was abandoned.

2.6 THEREFORE FOR THESE AND OTHER REASONS THE PRESENCE OF A QUARRY IN THE DATABASE OR IN THE INDIVIDUAL RECORDS DOES NOT IMPLY IN ANY WAY THAT PERMISSION FOR QUARRYING HAS BEEN OR MIGHT BE GRANTED BY THE OWNER OF THE LAND OR OF THE MINERAL RIGHTS OR WOULD RECEIVE THE APPROVAL OF THE PLANNING AUTHORITIES.

2.7 Photographs were taken of all significant sites using colour negative film. In the main those sites not recorded photographically were simply scrapes in the ground. Because many sites were visited in extremely poor weather conditions the photographs were not always as good as might be hoped.

2.8 Photographs were also taken of examples of slate roofs in the immediate vicinity of the quarries. See Annex C of volume one.

2.9 A set of photographs of a selection of the slate samples were also taken in diffuse daylight and included appropriate Munsell Soil Colour Charts. These are presented in Annex A of volume one.

2.10 A further set of photographs from the geological study are included at Annex 3 of volume one. For those interested in the petrography of the rocks the geological report contains thin section and back scattered scanning electron photo- micrographs.

2.11 A library of sample slates and rocks has been created and is held at the National Stone Centre, Ravenstor Road, Wirksworth.

### **3 Data handling.**

3.1 The field records were transcribed into individual record sheets and the geological, impact and other data and records added. From the records a database was created using Microsoft Access Version 2.0 and included the following fields

- quarry reference number
- quarry name
- locality
- sub area
- six figure grid reference
- geological horizon
- sample reference
- whether listed by Farey
- presence of slate
- presence of flagstone
- rock colour

3.2 The field entries were constructed so that simple A - Z sorting could generate listings by any of the fields. For grid references this produces sequential eastings each with sequential northings. For example SK 037 843 precedes SK 037 844 and follows SK 036 842.

3.3 The subareas were created purely to help in the description of the geology of the region and as a basis for grouping the quarries within areas of production and use. To this extent they are arbitrary and the borders although logical are not precisely defined.

### **4 Results**

4.1 The database records are presented in six formats in the Annexes: listed by quarry name - 2.1, grid reference - 2.2, sub-area - 2.3 and quarry number - 2.6. Annexes 2.4 and 2.5 show the quarries which correspond to Farey's records and those which had fissile rock, either slate or flag thickness. In the geological report they are also listed by geological horizon.

The quarry records are presented individually.

4.2 The gritstones or more correctly sandstones of the region which have produced roofing slates extend in a broad sweep from the Roaches in the south-west around the moors of the northern Peak Park and down through the eastern Coal Measures to the region south of Matlock.

4.3 The database contains 163 quarry records ranging in size from excavations no larger than a few square metres on for example Shatton Moor (SK 188802) to one kilometre of almost continuous quarry face at Cracken Edge near Chinley (SK 037835). It is clear from the remaining evidence that the sources listed by Farey were often simply locations rather than specific quarries and were not necessarily substantial at that time nor did they become so subsequently.

4.4 Analysis of the frequency, distribution and size of the old quarries indicates, not surprisingly, that the

scale of operations was mainly influenced by their proximity to substantial markets. Thus the sparsely populated areas of the northern Black Peak contain few and mainly small quarries. However at the edges of this region close to the markets there were some very extensive operations.

4.5 Outstanding amongst these are Harden Clough (SE 145040) serving Holmfirth, Glossop Low (SK 059963) and Cracken Edge (SK 037835). As transport in the region developed it is probable that the two latter quarries would have supplied the expanding urban areas to the west from Macclesfield to Stalybridge.

4.6 A similarly large and extensive industry existed in the east of the region probably serving Sheffield and Chesterfield. Some large workings existed in a comparatively easily worked rock. One small quarry is still operated on a small scale.

4.7 Elsewhere quarries were quite small although many would have been large enough to supply the present day market of the whole region.

4.8 Limestone is not a common source of slates in the region although some fissile stones are known to exist in the Turnditch area (SK 299470).

4.9 East of Chesterfield there was a roofing industry based on the magnesian limestone. Apparently centred around Whitwell (SK5576) there is now virtually no field evidence available of its scale or extent. Indeed there appear to be only two buildings remaining with roofs of this stone. Two old quarries were discovered Q40 & Q41 but

with so few buildings, probably only two, in need of such slates the only prospect for re-establishing production would be as a single project to provide a stock to be used as required.

## **5 The slates.**

### **5.1 Visual characteristics.**

5.1.1 The geological report explains the origins of the sandstones of the region. They were laid down in a variety of depositional environments, in the main, fluvial and deltaic. The nature of the environments and in particular the energy of deposition have been the primary determinants of the visual, and perhaps the durability characteristics, of the slates. In contrast the mineralogy of the source rocks from which the sediments were formed varied very little for those rocks which became the sources of the slates. It has therefore proved impossible to define individual stones mineralogically.

5.1.2 For the slates subset of the database of quarries and rocks the following characteristics have been logged

grain size;	very fine, fine, medium and coarse;
colour;	white, yellow, buff, brown, pink, olive and grey;
surface	smooth, rippled,
features	bedded, and biogenerated features;
minerals	visually significant mica, presence of carbonate or organic layers.

### **5.2 Grain size.**

5.2.1 For hand specimens grain size is expressed on the Wentworth scale where the following dimensions apply,

very fine	0.063 - 0.125 mm
fine	0.125 - 0.25 mm

medium	0.25 - 0.5 mm
coarse	0.5 - 1.0 mm

5.2.2 With practice these classes can be quite easily distinguished in the hand as can be seen in the photographs in volume one Annex 3 pages 3.69 - 3.71.

### **5.3 Colour.**

5.3.1 Colour is a consequence of a range of factors and their effect on the iron minerals. These include, the nature of the original sediment, the depositional and post-depositional environment and, following installation on the roof, weathering, pollution and plant growth. (See main report Annex 3.63 MS1) It is important therefore to always use freshly exposed rock when comparing colours. Slates normally look more or less black on old buildings and this may be due to industrial pollution or, possibly, algal growth. It remains to be seen whether environmental controls will result in cleaner roofs in the future.

5.3.2 Description of this feature has been standardised by use of Munsell Soil Colour Charts. Examples are shown in volume one Annex A. It may be necessary to define a range of colours over which the stone varies. For the latter reason it is wise to avoid over-precise specifications of colour especially in the range yellow - buff - brown, all of which can appear in a single slate.

### **5.4 Surface features.**

At the two extremes of this characteristic are the flat featureless Yorkstones and the highly textured and rippled Freebirch rocks. The latter may show chisel marks where the worst of the ripples have been dressed off to enable them to lie flat on the roof. In between these extremes there are examples of granular texture, stepped beds, and worm burrows and other animal generated features either in positive or negative cast.

### **5.5 Minerals.**

5.5.1 Surface mica significantly modifies the basic sandstone appearance imparting a distinct grey colour. However this feature may be short lived once exposed on a roof.

5.5.2 Limestone is not a common source of slates in the region although some fissile stones are known to exist in the Turnditch area (SK 299470). In the east of the region a few examples of magnesian limestone (dolostone) roofs may be found.

5.5.3 Indirectly the presence of carbonate may be determined by the predominance of grey lichen growth as against the greens and yellows which are more characteristic of non-calcareous stones. If the presence of carbonate is suspected it may be confirmed by applying (with care) a little dilute hydrochloric acid and inspecting for effervescence.

5.5.4 Organic layers usually look brown or black and are almost always associated only with the Westphalian (Coal Measures) sources. They rarely appear on the surface of new slates and therefore do not affect their appearance but they can reduce the durability of the product.

### **5.6 Size range and mix.**

5.6.1 Colloquial evidence suggests that some quarries would have been capable of producing larger slates than others and that this produces a fingerprint on the roof. Whilst this is certainly true in some cases and in a general way, more work is required to prove whether it is a reliable diagnostic factor in determining sources within this region. Potentially the natural mix from a quarry may have varied with time and may have been modified by "market" factors. For example, if it was necessary to transport a consignment over a significant distance, say more than one days journey, then the inclination would be to carry the larger or

thinner slates as they will cover a larger area for a given weight. Conversely small sizes require more labour to construct a roof and would therefore tend to be used by less wealthy purchasers or by those for whom labour cost was not so significant. Architectural conservation principles require the retention of the original size mix when re-roofing.

## **5.7 Constraints on slate types**

5.7.1 Because the environments of deposition varied over quite short distances and altered in time the grain size and shape and the structure of sandstones can alter significantly within a single small quarry. Therefore it is quite possible that single quarries would have produced slates which varied in these aspects from time to time. It follows that it may not necessarily be possible to predict the continued production, nor to insist on the supply, of products with particular characteristic except at the coarsest level of discrimination.

5.7.2 Similar restrictions apply to colour. This can vary significantly within short distances within a slate bed.

## **5.8 Generic slates.**

5.8.1 The slate characteristics described above were analysed and from this it has been possible to describe generic types. Surface features are considered to be the most important characteristic, followed by colour and grain size in so far as it determines texture. Superficial minerals may influence the appearance of the slates when new but the processes of weathering and particulate pollution will rapidly modify this feature and the inherent colour. Size and size range are not included as generic features although future work may show this to be an appropriate feature to include in a generic description.

5.8.2 Although the visible characteristics are of primary importance the less visible aspects such as mineralogy, grain size and chemical composition can also be relevant in determining the weathered appearance including which species of mosses, lichens &c. most readily establish on the surface. Durability is also very significant.

5.8.3 The generic types in Table 2.1 are proposed as a reasonable selection to cover the whole regional variety. Although they are named geographically it is important to realise that they are a consequence of the depositional environment at the time they were laid down and therefore they are not necessarily restricted to that area. Indeed some may be widely distributed within the region. The Cracken Edge type is by far the most common in the study area. This is one reason why slates imported from Yorkshire are not the most suitable substitutes for the traditional types. Table 2.2 indicates the subareas in which they are most likely to be encountered within the study area.

5.8.4 Inevitably these types are a compromise: it is always possible to further subdivide. However it is considered that they represent a reasonable basis on which to promote production of slates within the region. It is recognised that in particular cases and for particular buildings authenticity of source may be the prime consideration. In such instances the library of sample stones could be consulted for the nearest match within the immediate locality. It is almost inevitable that any building being roofed for the first time will have been supplied from within a few miles. It is only in recent years that both the lack of local supplies and the availability of cheap transport have resulted in carriage over significant distances.

## **6 Potential sites for production.**

**6.1 Long listing.** The sites shown in Figure 2.3 contain fissile rock with or without records of slate manufacture. These form the basic list for assessment of the potential for re-establishing production. However it must be remembered that many quarries have been excluded from this list simply because fissile rock was not visible. These should not be overlooked. The description of the subareas in section 8 provides an overview and some detail of the likely sources of slate producing quarries.

**Table 2.1 The proposed generic slate types**

Generic type	Description	Photographs			
		Annex A	Annex B	Annex C	Annex 3
Yorkstone	Flat, featureless, without substantial stepped bedding, fine to medium grained, buff to dark brown	A4 & 9			C18-20
Kerridge	Flat, featureless, without stepped bedding, fine grained, grey mica surface.	A7			Q8 & 3.69
Cracken Edge	Textured, with or without stepped bedding, fine to coarse grained, white and buff to dark brown.	A12			Q4 & 3.69
Teggs Nose	Textured, with or without stepped bedding, fine to medium grained, pink.		B7	C5 & 6	Q7 & 3.69
Freebirch	Strongly textured or ripple &c marked, fine to medium grained, buff to dark brown and olive to grey.	A 8 & 11		C30 & 31	Q19 & 3.70
Wirksworth	Strongly textured, fine to medium grained, pink to red.	A15 & 16			
Whitwell	Strongly textured or ripple &c marked, fine grained, grey or pink, magnesian limestone.	A13		C47	

**Table 2.2 Basic distribution of generic slate types.**

Generic type	Subareas
Yorkstone	Wessenden - Holmfirth, Don, Hallam, Derbyshire Coal Measures
Kerridge	Macclesfield Common
Cracken Edge	High Peak Forest, Macclesfield Common, Edale and Upper Derwent
Teggs Nose	High Peak forest, Macclesfield Common
Freebirch	Lower Derwent, Wingfield, Derbyshire Coal Measures
Wirksworth	Lower Derwent
Whitwell	Permian

## 6.2 Short listing

6.2.1 In the section dealing with the planning context of slate production it was concluded that existing active quarries were largely unable or unwilling to produce roofing at present. This is regrettable and it is recommended that intending manufacturers should look to these quarries first as potential sources. Nonetheless at present they cannot be included in a short list.

6.2.2 There are a variety of reasons for removing quarries which are capable of producing slates from a list of those in which production might be encouraged. These reasons include

- presence in an area of historical or environmental significance
- proximity to housing
- established use for other purposes such as recreational activities
- contamination by pollutants or dangerous substances
- difficult or dangerous access
- limited reserves or unfavourable topography

6.2.3 Of course within each of these categories there may be a wide scale of impacts or constraints.

- The presence of a small craft industry within an SSSI covering many square miles might be considered to be an acceptable impact when balanced against the conservation objective of protecting the vernacular architecture of the region.
- Examples of adjacent housing range from a single farm one kilometre distant to a complete village or suburb which has grown up to surround the quarry since it closed.
- Recreational uses encountered range from a seldom used footpath skirting an old quarry to a popular country park extensively reinstated with grant support and including an interpretative centre, guided walks and organised climbing courses on the quarry faces.
- Access can be improved and the impact of traffic for the scale of operations envisaged will be quite small, perhaps no more than single figure journeys in a day by modestly sized vehicles. It will certainly never approach the scale of traffic of aggregate operations with which the local communities are so familiar.

Consequently each potential site must be assessed individually.

6.2.4 The listing of quarries with slate or flagstone provides the starting point to select potential quarries for each sub-area. If those with an environmental listing are then excluded the potential number of quarries falls from 83 to 33. This may be too stringent; certainly some development might be appropriate on National Trust land or within Moor and Heath areas. The individual quarry records, the photographs and the colour records in the database will then provide information on the characteristics of the slates. By removing those with the most significant objections the 70 quarries shown on the following page become the front runners for further assessment.

**Table 2.3 Quarries where slates or flagstone were recorded**

<b>Sub area</b>	<b>Quarry name</b>	<b>Quarry</b>	<b>Grid ref</b>
DCM	Sutton Lane	Q39	SK 436694
DCM	Newbold	Q126	SK 365732
DCM	Sutton Scarsdale	Q37	SK 447687
DCM	Peakley Hill	Q47	SK 334766 & 335763
DCM	Calow	Q120	SK 403709
DON	Harden Clough	Q53	SE 145040
DON	Tyas Quarry	Q55	SE 170031
DON	Hartcliff Hill	Q60	SE 221018
DVS	Hollinsclough Rake	Q69	SK 059668
DVS	Dane Head	Q17	SK 026703 & 028708
DVS	Reeve Edge	Q18	SK 015700
DVS	Dane Bower	Q3	SK 014701
EUD	Wet Wivens Eyam Moor	Q20	SK 226792
EUD	Bole Hill Wood Bamford	Q162	SK 226838
EUD	White Edge Hathersage	Q66	SK 261786
EUD	Abney Moor nr track	Q11	SK 189803 & 181807
EUD	Bamford Moor	Q161	SK 216843
EUD	Jagger`s Clough	Q125	SK 152872
EUD	Bole Hill 2	Q24	SK 219841
EUD	Eyam	Q52	SK 223770
HAL	Spout House Hill	Q65	SK 275947
HAL	Fulwood Booth	Q67	SK 272853
HAL	Whirlow & Whinfall	Q46	SK 309826
HAL	Brown Edge	Q23	SK 277838 ++
HAL	Houndkirk Moor	Q152	SK 286814
HAL	Thornseats Delf	Q33	SK 230925
HAL	Fulwood Head	Q166	SK 278849
HAL	Rocher Bottom	Q128	SK 270954
HAL	Town End Royd	Q131	SK 284967
HAL	Hound Kirk Quarry	Q57	SK 287830
HPF	Stonebrake quarries	Q105	SK 028978
HPF	Whitfield	Q59	SK 039933
HPF	White Knowle	Q169	SK 051830
HPF	Cockerhill	Q106	SK 024975
HPF	Holybank	Q104	SK 026976
HPF	Chunal 1 & 2	Q10	SK 036915
HPF	Cown Edge	Q6	SK 015918
HPF	Eccles Fold	Q172	SK 030816
HPF	Rowarth	Q13	SK 018886 & 023882
HPF	Sitch (Thornsetts)	Q87	SK 021874
HPF	Charlesworth	Q54	SK 008927
HPF	Top Eccles Farm	Q14	SK 031810
HPF	Glossop Low	Q58	SK 058964
LDR	Duke`s	Q103	SK 333546
LDR	Bentleybrook 1 - 3	Q96	SK 314611 ++
LDR	Lumshill	Q94	SK 316613

Sub area	Quarry name	Quarry	Grid ref
LDR	White Tor	Q31	SK 310576 & 310573
MAC	Bakestonedale Moor	Q9	SJ 953801
MAC	Lyme Park	Q62	SJ 952815 +++
MAC	Wimberry Moss	Q85	SJ 965765
MAC	Breck 2 quarries	Q97	SJ 937795
MAC	Macstone Kerridge	Q8/2	SJ 939763
MAC	Brink, north of Teggs	Q44	SK 953737
MAC	Windgather Rocks	Q27	SJ 995782
MAC	Goytes Clough	Q1	SK 013734
PER	Hucklecroft	Q40	SK 483625
SAD	Slate Pit Moor	Q144	SD 996006
SAD	Broadstone & Running Hill	Q142	SE 018074 & 018077
WFD	Redcarr Hill	Q32	SK 368658
WFD	Handley	Q121	SK 378619
WFD	Slatepit Plantation	Q153	SK 305735
WFD	Press	Q35	SK 371652
WFD	Slatepit Dale	Q26	SK 345678
WFD	Cartledge	Q45	SK 325768
WFD	Shillitoe Forest	Q22	SK 295748 - 295758
WFD	Freebirch	Q19	SK 310726
WFD	Puddingpie	Q154	SK 310719
WFD	Riddings	Q155	SK 320714
WHF	Harden Edge	Q174	SE 155036
WHL	Pule Hill	Q111	SE 035101

## 7 The quarry record sheets

A complete listing of all the entries in the database is given in Annex 2.6. Several of the quarry record sheets cover more than one quarry. They include the following information :-

7.1 Quarry name. Most often the names were obtained from maps or other similar and reliable sources. For some quarries a name could not be found and in these instances an appropriate local name such as the nearest farm or village has been used. Unsurprisingly some names are repeated - most notably Bole Hill. They can be distinguished from each other by referring to their locality - Bole Hill, Bamford and Bole Hill, Wingerworth &c.

There is an alphabetical list of all the quarry records starting on page 21 and in Annex 2.1.

7.2 Location The most precise location is given by the National Grid reference. This is normally six figure. Often a quarry record sheet will contain more than one grid reference. In the database one or more + symbols after the grid reference indicates the number of quarries included in that record. A listing of quarries by grid references, see Annex 2.2, produces sequential eastings each with sequential northings. For example SK 037 843 precedes SK 037 844 and follows SK 036 842.

7.3 In a region as large as the South Pennines and where the remaining evidence of some quarries is only a small depression in a field it may be difficult to gain an overall impression of the scale and distribution of the quarries. To try to make this easier for the reader location information is provided in two further ways. To enable a quarry

to be quickly located within the region a locality reference, generally the nearest town or the parish, is included. On a slightly larger scale references are provided for each quarry to the sub-area in which it occurs.

There is a list of quarries sorted by sub-area in Annex 2.3.

7.4 The subareas which, are illustrated in Annex 2.7, and described in section 8, were originally created for the associated geological study<sup>1</sup> to aid the description of the regional geology. They are based upon a combination of similar geological features, clusters of former workings, specific types of stone slates and former or potential markets. They have no formal status and their boundaries are necessarily broadly drawn; their limits frequently following natural watersheds and sparsely populated areas lacking potential stone slate quarries. It is also important to note that these areas were defined on the basis of a group of common entities and do not carry with them any implications concerning the number of sources needed to fulfil potential demand, or the limits of viable markets.

7.5 The quarry reference number. Because the database of quarries was built up chronologically the reference numbers do not have any geographical relationship - thus two adjacent quarries may have widely different numbers. Also there are some gaps in the numbering.

The Grid Reference or sub area listings can be used to locate quarries which are close together. Annex 2.2 lists the quarries by reference number.

7.6 A stone sample reference number. The samples were all collected either in the relevant quarry or from close by. They are held by the National Stone Centre, Ravenstor Road, Wirksworth DE4 4FR.

7.7 Access. This indicates the extent to which access might be a problem in operating a quarry.

**7.8 Description.** The amount of available information about the quarries varies considerably. It has been obtained from a variety of books and maps which are listed in the references and from field observations and talking to local people. It is as accurate as is possible under the circumstances described but it should be noted that sometimes it is based on opinion and conjecture. It is essential that any information provided here is thoroughly checked before taking commercial decisions. The inclusion of a quarry in the database or in the individual records does not infer in any way that permission for quarrying has been or might be granted by the owner of the land or of the mineral rights or would receive the approval of the planning authorities.

7.8.1 The colour of the rock may be given here or in the database. This information should be treated with care as colours are highly variable.

7.8.2 The earliest inferred written references to stone slate operations in the area relate to the mid-seventeenth century and are in the form of agreements permitting the taking of slate and stone for the repair of buildings or to slaters as a specific occupation (Norfolk Estate papers: lease - 1.7.1658).

7.8.3 A particular feature of stone slate quarrying was the tendency for operations to exploit relatively thin near-surface deposits and two types of operation are apparent in the old quarries. The optimum site was the crest of a scarp slope where the dip of the rock was parallel with the land surface. This allowed the quarry to be developed into the dip slope without excessive overburden - sometimes even working two or more galleries - but mainly extending along the crest perpendicular to the dip. The classic example is Cracken Edge.

7.8.4 Where development along a crest was impossible an "opencast" system was followed. An extreme example can be seen at Harden Clough where excavations extend over about one square kilometre as a series of shallow quarries along the c390m contour. In practice the outcome often shows little sign of planned working as at Freebirch. This system seems to have only been operated where there was negligible overburden.

7.8.5 Most workings gave rise to considerable volumes of reject material which was then dumped down slope where possible or into worked out areas with virtually no attempt being made at restoration. In the latter case a whole complex of highly disorganised excavations and dumps developed, rarely exceeding 7m in

depth below the surface or height of the tips. In such quarries a consequence of this system is that remarkably few working faces are now visible. Typical examples are sites at Wet Withens, Harden Clough, Thornseats, Brown Edge and Freebirch. There is another explanation for the disorganised tipping on some sites. In early records there are complaints by land owners that the managers, who were paid by the area worked, were tipping waste onto virgin land and claiming that it had all been worked.

7.8.6 Virtually all the extraction processes were by hand, the only concession to mechanisation appears to have been in the form of narrow gauge rail systems (operated by men or horses) at some of the larger workings. These were mainly for the removal of waste rock, some of which appeared to be good building stone. Cracken Edge and Slatepit Moor Quarry near Mossley, could also claim the advantage of rope hauled inclines. Some of the larger sites had extensive areas of cutting sheds together with barracks and probably a smithy.

7.8.7 The reasons for closure of an operation may be pertinent. Excessive overburden, ownership boundaries and the introduction of competing materials, notably Welsh slate or Staffordshire tiles, were the main factors. In a few cases, when overburden became too great, quarries extended underground as mines for example at Cracken Edge and possibly at Spout House Hill.

7.8.9 The frequency and or distribution of workings within a give horizon is of course influenced by a combination of technical quality, commercial factors (proximity to markets, competing materials, local practice), the extent of accessible outcrop or "competing" outcrops.

**7.9 Geology.** Generally entries in this section describe the structure of the rock at the site. They refer extensively to the geological names of the region's rocks but because the names of the same rocks vary across the region this can be confusing. To try to overcome this difficulty four tables of geological correlations are presented in Annex 2.8.

Table 2.4 The main rock units of the study area and their significance.

Table 2.5 Correlation of litho-stratigraphic horizons with Farey's Grits

Table 2.6 The Lower Westphalian Sandstones

Table 2.7 The Namurian Sandstones (Millstone Grits)

7.9.1 There is very little remaining evidence of the Carboniferous Limestone being utilised as a source of sandstones but thin beds do occur, notably in the higher parts of the sequence.

7.9.2 Derbyshire and Southern Pennine stone slates have been traditionally derived from some of the more robust, fissile, fine to medium grained sandstones of the Namurian and the Westphalian. These rocks account for the greatest part of the quarry records.

7.9.3 Some limited thinly bedded horizons of the Permian Limestones have also been employed for roofing notably in the eastern area of Derbyshire around Whitwell.

7.9.4 The formations of the Triassic Period do include sandstones, but they are at best unconsolidated or extremely friable and are therefore almost without exception, totally unsuitable. It is just possible that occasionally, attempts may have been made to utilise the occasional band of indurated marl (or "marlstone"). In any case, the consistency and both lateral and vertical extent of such deposits, rule them out as economically viable propositions. The same is true of the other post-Permian deposits.

**7.10 Impacts.** Where anything environmentally, socially or culturally significant is known for the site it is noted but the absence of any comment should not be taken as a guarantee that the quarry is not subject to such considerations. Conservation and other assessments are constantly under review and in any case an application to operate a quarry will almost certainly require an impact assessment.

7.10.1 The following abbreviations are used in the Environmental field of the database.

M&H	Within the areas designated as Moor and Heath
RIGS	Regionally important geological site
Rec	Recreational use
Operating	An active quarry
Nat res	Nature reserve
NT	National Trust property
SSSI	Site of special scientific interest

## **8 Sub-area Summaries**

The following descriptions of the subareas were written by Ian Thomas for the associated geological study.

### **8.1 Dane Valley and Staffordshire Moors**

8.1.1 This area is characterised by ridge upon ridge of mainly north-south trending sandstones, separated by mudstone valleys. Some of the moors, notably Axe Edge and Morridge, form major tracts of high peat-covered hills; in contrast, the Roaches and Hen Cloud area comprises a series of dramatic rocky ridges. The western part of the area is more subdued.

8.1.2 By far the most important source of stone slates is the part where the twin operations of Danebower and Reeve Edge worked the Rough Rock on either side of the Upper Dane Valley. Despite the relatively remote location, these were among the three or four most extensive operations located in the study and appear to have been very largely devoted to stone slate production. A careful ground survey is very likely to reveal potential extensions appropriate to medium scale production although rock overburden and immediate access could pose some logistical problems. Two or three smaller workings were also operative in the Rough Rock nearby and the local name Bakestone Edge is also pertinent here.

8.1.3 The other traditional sources located were Daisy Knowle Mine, Longnor (Longnor Sandstone), the only totally underground operation, and small sections of Five Clouds Quarry overlooked by the Roaches. Both these sources were worked in fairly arduous circumstances and are unlikely to be worthy of further consideration as future sources.

8.1.4 Further investigation of the Rough Rock forming the run to the Axe Edge and Goldsitch Moss Coalfields and then crossing the River Dane to Tagsclough and Birchenough Hills may be worthwhile. The localised preponderance of stone slate roofs in this area suggests that there was an important additional source here but this may have been Reeve Edge or Danebower some five kilometres across the rough country to the north.

### **8.2 Macclesfield Forest**

8.2.1 This area is typified by a concentration of narrow, relatively steeply-dipping north/south trending sandstone ridges, making up the tightly-folded Goyt syncline in the east and the Todd Brook Anticline further west. Beyond, in the north west (east of Pott Shrigley) is a series of east-west aligned sandstones. The folding results in repeated outcrops of the same horizons on each side of the folds, and all the key sandstones found in the study area are represented here. Almost all have been quarried.

8.2.3 A number of workings, some on a large scale, were operated here. Immediately outside the Peak Park, an almost continuous series of quarries in the Milnrow Sandstone can be followed for 2 km along the western side of Kerridge Hill, some of which are still active and one which has just recommenced production of stone slates.

8.2.4 The Milnrow Sandstone was also quarried until very recently at Bakestonedale Moor; older workings extend eastwards. Much of the rock here has a superficially flaggy appearance, but the survey failed to identify any suitable material. Billinge Hill Quarries and historically important Goytsclough Quarry relied upon the Rough Rock. Although the latter was referred to by Farey as a stone slate source, insufficient suitable material was found in the survey and the overburden proved to be too great to merit working notwithstanding possible objections on account of its sensitive location. Teggs Nose Quarry (also now a country park) exposes an untypical turbidite sequence (alternating thin blocky sandstones and mudstones) in the Chatsworth Grit. Although listed by Farey as a source, again it is unlikely to be a viable proposition in geological terms. The blocky horizons are too thick and of insufficient lateral extent to produce reasonable sizes. Furthermore, the ratio of workable material to interleaved waste is inhibitive. The Chatsworth Grit on Wingather Rocks appears to be a better prospect in terms of physical quality and is similar to that at Eccles Pike in the adjacent High Peak Forest sub-area but may be ruled out on environmental grounds.

### **8.3 High Peak Forest**

8.3.1 The great bulk of the classic peat-clad Dark Peak comprising Kinderscout, Bleaklow &c, defines the eastern boundary. It is formed by great alternating sequences of thin sandstone and shale, making up the Shale Grit (a term coined by Farey) and the normally coarsely-grained massively bedded Kinderscout Grit. To the west, the beds of the thin outcrops of Chatsworth Grit, Rough Rock and Lower Westphalian Sandstones account for numerous fault broken north-south trending ridges.

8.3.2 Occasionally, where the Kinderscout Grit has been separated by bands of intervening mudstone into a series of subsidiary leaves, its characteristics change to a more laminated, finer-grained style, as in the former stone slate workings along the A 624 from Chinley to Chinley Head, Chunal and Whitfield, (now part of Glossop), all in the lower leaf. However, the most notable and one of the most isolated sites, that at Glossop Low, utilised the Middle Leaf. These quarries and large scale tips extended for about 1km across open moorland on the Norfolk Estate and appear to have been in their heyday in the period 1800-1850. These constitute some of the largest undertakings seen in the study, but the remoteness and the practice of eastward extension with increasing overburden (including peat) mitigates against viable production. Cracken Edge on Chinley Churn is the other large and long-standing stone slate production site. Here, the Rough Rock has been worked, occasionally by underground mining, over a distance of nearly 2 km and involved a more mechanised approach than elsewhere, finally closing in about 1920. Increasing overburden and relatively long access along poor routes may discourage large scale exploitation, but smaller scale quarrying may be feasible. The Rough Rock is also worked further north, particularly around Rowarth but on a smaller scale and also for building stone. Between these two, the Chatsworth Grit, although rarely acceptable elsewhere, appears to be of particularly good quality between Buxworth and Eccles Pike. In this area, the higher, near surface sections are of "well cleaved" thin false-bedded sandstones. This area clearly merits further investigation, particularly if the potential access problems can be overcome.

8.3.3 In contrast, other quarries in the Chatsworth Grit and Kinderscout Grit in the Hayfield-Birch Valley area, reveal the massive coarse-grained characteristics more typical of these sandstones. Even the Rough Rock is not particularly flaggy here. This emphasises the need for caution in extrapolating from one area to another.

8.3.4 In the main part of the Longdendale Valley, where at least three quarries in the main bed of the Kinderscout Grit produced good stone slate material at Tintwistle, the numerous other sites in the Kinderscout Grit were all unsuitable, being mostly massive in character.

### **8.4 Saddleworth**

8.4.1 In this sub-area, the north-south trending Tame Valley, with its ribbon of mill towns - Mossley, Upper Mill and Diggle - divides the peat covered Kinderscout Grit moors of the Pennines from the Lancashire Coalfield to the West. Shale Grit with some Boulder Clay cover forms the floors of the valleys with the

Kinderscout Grit generally outcropping on the higher eastern slopes. Much of the latter is typical coarse, even pebbly, massively bedded material and is sufficiently cohesive to be worked for aggregates at Buckton Moor Quarry. However, the main Grit is separated by extensive mudstone bands, in places into at least four separate sandstone units.

8.4.2 It was only possible to carry out a rapid reconnaissance visit to this area, but this did identify a former major operation working the middle leaf of the Lower Kinderscout Grit, the base of which is flaggy. The site at Slate Pit Moor, Carrsbrook, Mossley at the top of a steep valley-side appears to have been reached by means of an incline. More accessible sites may be available to the south as the outcrop crosses the small Swineshaw valley. Further north, to the east of Diggle, Ravenstone Rocks Quarry, again high above the town, may just be worth further investigation, but access is very poor. There is further evidence for stone slate working in extremely remote parts of the Pennine Moors - notably at Slate Pit Moss and at Far and Near Broadslate. Higher sections of the Kinderscout Grit, and the Readycon Dean Series underlie these areas.

## **8.5 Wissenden - Holmfirth**

8.5.1 This area is complex geologically and topographically. It includes the main Pennine ridge but this is fragmented by important subsidiary valleys, some fault controlled but having no consistent pattern. Kinderscout Grit accounts for much of the higher land. Younger sandstone units, notably the Readycon Dean "Series", Huddersfield White Rock (Middle Grits/Marsdenian) and the Rough Rock also underlie extensive high land to the east and the more populated, rather lower plateau and valleys from Meltham to Holmfirth. These and other sandstones have almost all been worked, often extensively for building stones. The Pule Hill Grit produced flags and possibly stone slates at Scouthill Quarry, Meltham, as did the Huddersfield White Rock on Meltham Moor (Royd Edge and Isle of Skye quarries) and on either side of the Holme Valley.

8.5.2 However, despite the extensive use of stone slates in many of the older buildings, notably at Holme, no major sources clearly emerged. It is possible that most of the supplies were drawn from the many widely quarried sandstones in the more urbanised lower land, just outside the Study Area. One notable feature is the coarse and massive nature of the Rough Rock in the large outlier, west of Meltham, in contrast to the abundance of fine-grained fissile material in the sandstone to the south east of this sub-area.

8.5.3 There are very few settlements in this and the adjacent Saddleworth sub-area, which fall strictly within the National Park. If it is considered necessary to identify a specific source to supply this area, there are very many potential sites which could be investigated further, but it is clear that the characteristics of individual sandstone units are remarkably variable in this sub-area.

## **8.6 Don**

8.6.1 This sub-area comprises the Don and Little Don Valleys, from Stocksbridge and Penistone to their headwaters. Together, they divide the Yorkshire Coalfield containing the Greenmoor Rock and Grenoside Sandstone (equivalent to the Wingfield Flags) to the north east, from the Rough Rock and Huddersfield White Rock rising to the Kinderscout Grit, south of the Woodhead Pass. Locally in the west, the base of the Rough Rock has been mapped as a separate sub-unit, the Rough Rock Flags. Between Hade Edge and Winscar Reservoir, these Flags have been exploited in conjunction with the intervening Rough Rock Coal over an area of 1.5 km x 0.5 km either side of the Harden Clough. Operations continued here at the so-called Magnum Bonum Quarries into the 1920's and with Snailsden Moss to the south, produced stone slates, kerbs, flags and building stone. Nearby, on the east side of Winscar Reservoir, two small workings below Harden Edge and Tyas Quarry worked the same sub-unit for stone slates. The first of these appears to be particularly promising in terms of the apparent quality of this cross-bedded sandstone and its proximity to a good road. This would in effect be an eastward extension of the larger workings, so obvious that it is important to identify why operations here were so small; one possible reason is increasing overburden - this will need to be checked.

8.6.2 From Flouch Inn to Midhopstones, despite the preponderance of flaggy stone walls and stone slate roofs in the area, and the continuing presence of the Rough Rock, there is no evident local source in these rocks. Indeed, they are virtually devoid of quarries. The Rough Rock Flags does die out in this direction. Possibly, workings were shallow and widely scattered across the outcrop. Alternatively, Hartcliffe (just outside the Study Area but listed by Farey), in the Grenoside Rock, may have been the supplier or Magnum Bonum to the north may have dominated the local market.

## **8.7 Hallam**

8.7.1 The western half of this sub area comprises high peat moorland. Largely of Kinderscout Grit it offers very poor or no vehicular access. To the east, the sandstone of the "Middle Grits" (Marsdenian), Rough Rock and the lowermost Westphalian sandstones outcrop in fairly regular fashion, interrupted by faulting in the east. Attractive valleys with strings of reservoirs are a key feature of this part of the sub-area. The broad spread of the Heyden Rock and the Chatsworth Grit (locally called the Rivelin Grit) both supported isolated stone slate workings. Those in the lower part of the Heydon Rock at Thornseat Delf are on a large scale, covering about 8-9 Ha. The Huddersfield White Rock is still extracted at Loadfield Quarry and appears to have some potential for stone slates.

8.7.2 By contrast, south of Ewden Beck, the Rough Rock has a rather more fragmented outcrop but has been very widely quarried, for example from Oughtibridge to Spout House Hill, then south to Kirk Edge. Over a distance of 6 km, there is an almost unbroken string of quarries. Those at Spout House Hill alone cover an area of 0.75 x 0.5 km. They mainly produced stone slates and bakestones and appear to have been mined underground via shafts in the centre of the outcrop. Kirk Edge Quarries are rather enigmatic and may also have supplied stone slates as well as coarser material. The Rough Rock between Bradfield and Redmires Reservoirs does not appear to have been worked, but the same beds between the reservoirs and Ringinglow were very important sources. The operations at Fulwood Booth and Brown Edge are particularly significant and areas between these two places are worth further detailed investigation.

8.7.3 Further, but smaller, workings produced stone slates at Whirlow Bridge in Sheffield. However, other nearby outcrops of the Rough Rock, particularly to the north (west of Totley) and west (west of Redmires and on Ughill Moors) either tend to be coarse grained or devoid of workings. A fairly small, detached outcrop at White Edge Moor, Nether Padley, was largely worked out for stone slates, but may offer some potential if overburden is not excessive. (This site is actually located in the Upper Derwent Valley but is more closely related to the Rough Rock of this sub-area).

8.7.4 North of the Ewden Beck, the Rough Rock is remarkable for its lack of quarries in contrast to the extensive outcrop and the widespread use of stone slates in Bolsterstone village. The Crawshaw Sandstone and Loxley Edge Rock are typically medium to coarse grained and generally massive in character.

## **8.8 Edale and Upper Derwent**

8.8.1 This sub-area takes in the Derwent Valley above Baslow and is dominated in the east by the classic Millstone Grit edges formed by the Kinderscout Grit and Chatsworth Grit to the north of Hathersage and the Chatsworth Grit and Crawshaw Sandstone to the south. West of the Derwent, the Kinderscout Grit and the Shale Grit contain the main sandstones and form virtually all the higher land. The valleys are floored by Edale Shales (which also fringes the Limestone) and the Mam Tor Beds. Apart from the detached upland centred on Abney, all the other gritstone moorland is part of the main Dark Peak plateau, dissected by the Derwent, Hope, Edale and Woodlands Valleys.

8.8.2 In the Abney area, Farey lists a number of sources and clearly there were probably at least a dozen shallow operations scattered across the flaggy leaves of the Shale Grit in the western part of the upland. However, they all appeared to have been opened up to serve very local needs - individual farms or for walling. In one instance, on Shatton Moor, five small workings exploited a single leaf of sandstone all linked

to one access-way. If required, further detailed investigation might identify sufficient material from one of these sites, to serve local needs, particularly for the small slates typically used around Abney. The overlying Kinderscout Grit was also exploited in similar but more limited fashion, the only workings of note being in the lower leaf of the sandstone at Wet Withens. Although this site is isolated and subject to strong environmental reservations, the continuation of the outcrop north eastwards appears to offer a better prospect.

8.8.3 The lower detached leaf of the Kinderscout Grit was also worked at sites above Bamford and one of these has reasonable potential as a future small scale source.

8.8.4 Possibly the most remarkable feature of this sub-area is the dominant use of stone slates in the Vale of Edale since the 1650's but the lack of any clear evidence of their source. The extent of their use very strongly implies a local source. It may have been the case that the flaggy sections of the Shale Grit (there are numerous sandstone leaves) and over the Mam Tor Beds in the valley may have provided such an abundance of sources that no major suppliers were required. However, totally unlike Abney, there is no map and little field evidence to support this. The historical references inferring "slate pits" in this area require further research to locate sites.

## **8.9 Lower Derwent**

8.9.1 In addition to the main Derwent Valley south of Bakewell, this sub-area takes in the Ecclesbourne Valley. North of Cromford the Carboniferous Limestone constitutes the western boundary. Detached outliers of predominantly Ashover Grit make up Stanton Moor, Harthill and the fault-broken ridges of the area between the two main valleys. To the east of the Derwent, the Ashover and Chatsworth Grits typically form stepped scarps parallel to the main valley and around Ashover. Further east, the coarse Crawshaw Sandstone of the lower Westphalian outcrops, particularly on Holymoore and above Chatsworth. The intervening Rough Rock is thin or even absent in places but was a significant source of building stone at Coxbench.

8.9.2 Very few parts of the varied and extensive sandstone outcrops in the sub-area have been untouched by building stone operations, indeed, some of the sources could claim national significance particularly in Victorian times and also in the last 20 years.. In contrast the number of former stone slate sources is remarkably small. Farey referred to only six sites in this area, only two of which can be located with any certainty today. This suggests that the scale of such working as did take place was clearly very small and no other significant "new" sites were found in this study. This view is supported by the infrequent evidence of the use of stone slates from remaining buildings; almost all of the latter are found close to the established sources in the area, namely Bakewell Edge and White Tor near Starkholmes. Field observation of most of the former building stone quarries also indicates that very few sections could have produced stone slates despite a geological context apparently comparable to other parts of the study area. The almost universal absence of fissile rock may have been one of the reasons which actually favoured the large scale production of building stone here.

## **8.10 Wingfield Flags**

8.10.1 This sub-area is the only one defined on the basis of its geology. Geographically it runs along the boundary between the classic gritstone moors (formed by the Namurian Sandstone) east of the Derwent, and the main Derbyshire Coalfield. From Totley in the north to Kilburn in the south the outcrop is about 23 miles (37 km) long. The area is characterised by rolling farmland, relatively well wooded and by broken, generally north-south ridges. Throughout much of its length, the Wingfield Flags almost invariably comprise a series of parallel sinuous sandstone outcrops; the intervening mudstones typically separate out between two and five sandstone bands.

8.10.2 In the Totley-Cordwell Valley area, the beds are known as the Greenmoor Rock. The adjacent Westphalian sandstones often exhibit similar properties; they are almost invariably flaggy or at least thinly bedded, fine grained sandstone or siltstone, micaceous in places and generally olive in colour. Fine ripple

marking is a particular characteristic. The notable exception lies at Bolehill, Wingerworth where a more massive but still false bedded buff building stone is quarried; flaggy material is confined to the very top of this section.

8.10.3 Elsewhere a dozen or so former stone slate workings are found in two clusters, around Freebirch at the head of the Linacre Valley and between Slatepit Dale (Walton) and Clay Cross. There are a number of possible sites for future working, mostly as extensions to former operations particularly around Freebirch.

8.10.4 Although no workings could be found from site or documentary evidence at Totley (just beyond the Study Area), the geology of the area and the widespread use in roofs strongly implies that there were good local sources here.

## 8.11 Derbyshire Coalfield.

8.11.1 The sub-area is defined on the west by the wooded sandstone ridges of the Wingfield Flags and on the east by the Permian Limestone. Numerous cycles of coal seams, mudstones and sandstones underlie the area. The sandstones are especially variable, both in extent and nature, and are buff, yellow and occasionally pink or ochre in colour. Examples of stone slates are extremely rare, possibly in part due to mining subsidence followed by replacement with other materials. Many of the sandstones have been exploited on a limited scale but evidence on the ground to support documentary records has often been lost through open-cast coal mining.

8.11.2 Most of the sites identified are concentrated in the area bounded by Temple Normanton, Sutton Scarsdale, Tibshelf and Teversal. Sandstones associated with the Top Hard and High Hazels Coal seams, although relatively thin were most commonly worked. However this research was heavily dependant upon leads provided by historical and geological documentation which does not appear to be consistent across the Coalfield.

8.11.3 In the main part of the Coalfield, only Sutton Scarsdale presents itself as worthy of further investigation.

8.11.4 Elsewhere, in those fringe areas of the Coalfield where coal mining ceased many years ago, between the Silkstone Rock and the Greenmoor Rock/Wingfield Flags, stone slates (similar to the nearby Wingfield Flags) were extracted at Cartledge near Holmesfield and contributed to a fine suite of roofs here. Further investigations are likely to identify a workable deposit. The Silkstone Rock itself has a broad outcrop from Dronfield Woodhouse to Eckington. Most of the former sandstone workings have been developed for housing. Small quarries in this sandstone at Peakly Hill may offer a source. Some of these operations produced stone slates. On a more limited scale, the sandstone overlying the Deep Hard Coal was worked between Tupton and Newbold, one site being specifically labelled Newbold Slate Pit.

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<sup>1</sup> Hughes T G et al. 1995. ROOFING STONES IN THE SOUTH PENNINES: A geological study of the origins, sources and suitability of sandstones for roofing. DoE unpublished. *Copies are held by the Department of Environment, Construction Products and Materials Sponsorship Division; Derbyshire CC; The Peak Park Planning Board; English Heritage Department of Architectural Conservation; The National Stone centre Wirksworth; Oxford Brookes University Geology and Crotophgy Division and Slate & Stone Consultants.*

<sup>2</sup> Stanley M 1993. THE STONE SLATES OF DERBYSHIRE. An appraisal of Farey's list of quarries.

<sup>3</sup> Farey 1811. A GENERAL VIEW OF THE AGRICULTURE AND MINERALS OF DERBYSHIRE. Reprinted 1989

<sup>4</sup> Anon 1992. MUNSELL SOIL COLOUR CHARTS. Macbeth Division of Kollmorgan Instrument Company, New York.

<b>Quarry Name</b>	<b>Reference</b>	<b>Grid Reference</b>
Abney Moor	Q11	SK 189803 & 181807
Alton	Q119	SK 370664
Ambervale	Q2	SK 333629
Ashover	Q82	SK 310645
Astwith	Q38	SK 440640 & 436638
Bakestonedale Moor	Q9	SJ 953801
Bamford Moor	Q161	SK 216843
Bentleybrook	Q96	SK 314611 ++
Billinge	Q84	SJ 955777
Birch Vale	Q91	SK 022865 023866
Blackshaw Clough	Q149	SK 049959
Bole Hill	Q156	SK 296746
Bole Hill & Millstone Edge	Q88	SK 249795 & 248805
Bole Hill Wood, Bamford	Q162	SK 226838
Bole Hill.	Q24	SK 219841
Bolehill, Wingerworth	Q28	SK 368661
Bond 's quarry	Q78	SK 275661
Breck	Q97	SJ 937795
Bretton	Q175	SK 225777
Brink North of Teggs Nose	Q44	SK 953737
Broadstone & Running Hills	Q142	SE 018074 018077
Brock Holes	Q49	SK 075998
Brown Edge	Q23	SK 277838 ++
Buckton Moor	Q143	SD 990018
Buxworth Crist	Q29	SK 027818
Calow	Q120	SK 403709
Cam Height	Q151	SK 259827
Cartledge	Q45	SK 325768
Charles Lane	R75	SK 045950
Charlesworth	Q54	SK 008927
Chunal	Q10	SK 036915
Coalburn	Q25	SK 375539
Cockerhill	Q106	SK 024975
Corbar Woods	Q164	SK 055745
Cown Edge	Q6	SK 015918
Cracken Edge	Q4	SK 037835
Crich	Q61	SK 348 532
Cunner	Q100	SK 328590 eastwards
Daisy Knowl, Longnor	Q99	SK 082652
Dane Bower	Q3	SK 014701
Dane Head	Q17	SK 026703 & 028708

Quarry Name	Reference	Grid Reference
Derbyshire Oaks	Q16	SK 337605
Duke's quarry	Q103	SK 333546
Dutton's quarry	Q15	SK 336626
Dutton s. SE of,	Q56	SK 340624
Eccles Fold	Q172	SK 030816
Edge, Manners Wood	Q12	SK 232684
Eyam	Q52	SK 223770
Farley Moor	Q110	SK 297627
Five Clouds	Q68	SK 003623
Flash Bottom	Q98	SK 019662
Frackley	Q138	SK 471611
Freebirch	Q19	SK 310726
Fulwood Booth	Q67	SK 272853
Fulwood Head	Q166	SK 278849
Gipsy Hill	Q41	SK 510778
Glossop Low	Q58	SK 058964
Goytes Clough	Q1	SK 013734
Grindsbrook Clough	Q150	SK 119871
Hagg Bridge	Q158	SK 225998 +
Hallowes	Q165	SK 360774
Handley	Q121	SK 378619
Harden Clough	Q53	SE 145040
Harden Edge	Q174	SE 155036
Hardwick Hall. Below the	Q42	SK 462634
Hardwick Hall. By the lake.	Q21	SK 454640
Hardwick Hall. To the East.	Q148	SK 465528
Hartcliff Hill	Q60	SE 221018
Hayfield	Q90	SK 030869
Hayfield	Q170	SK 044867 etc
Heath	Q122	SK 440668
Hen Clouds	Q76	SK 012617
Highfields Williamthorpe	Q132	SK 423658
Highlikely	Q83	SK 316641
Hillhouse Head	Q113	SE 129055 +
Hodmire Lane, Stainsby	Q123	SK 458653
Hollinsclough Rake	Q69	SK 059668
Holme Moss.	Q51	SK 091037
Holybank	Q104	SK 026976
Hound Kirk	Q57	SK 287830
Houndkirk Moor	Q152	SK 286814
Hucklecroft	Q40	SK 483625

Annex 2.1 The quarries listed alphabetically

Quarry Name	Reference	Grid Reference
Hunger Hill	Q92	SK 325674
Hurst	Q139	SK 452618
Isle of Skye	Q72	SE 089079
Jagger's Clough	Q125	SK 152872
Knotberry End	Q171	SK 023694
Lamb Inn	Q89	SK 049842 - 052836
Loadfield	Q124	SK 258949
Longclough	Q177	SK 031925
Lord's Seat	Q168	SK 255859
Lumsdale	Q95	SK 318609
Lumshill	Q94	SK 316613
Lyme Park	Q62	SJ 952815 +++
Macstone Kerridge	Q8/2	SJ 939763
Marksend Kerridge	Q8	SJ 943757
Marsden	Q112	SE 040108
Matlock Moor	Q93	SK 307627
Meltham Cop	Q73	SE 094120
Mickley Farm	Q43 1&2	SK 327795
Moorfield.	Q71	SK 043926
Nether Tor	Q163	SK 122876
Newbold	Q126	SK 365732
Old Engine Farm	Q101	SK 330618
Old Totley	Q157	SK 30_31
Outlane, Holmwood	Q127	SK 437651 +
Peakley Hill	Q47	SK 334766 & 335763
Press	Q35	SK 371652
Puddingpie	Q154	SK 310719
Pule Hill	Q111	SE 035101
Redcarr Hill	Q32	SK 368658
Reeve Edge	Q18	SK 015700
Riddings	Q155	SK 320714
Roach Tor	Q173	SK 082838
Roach Wood	Q81	SK 314663
Rocher Bottom	Q128	SK 270954
Rock Farm	Q77	SK 024913
Rowarth	Q13	SK 018886 & 023882
Royd Edge	Q145	SE 087092 ++
Scout Wood	Q141	SE 055113
Shatton	Q129	SK 193818
Sheen Hill	Q160	SK 105624
Sheepwash	Q135	SK 442678

Annex 2.1 The quarries listed alphabetically

<b>Quarry Name</b>	<b>Reference</b>	<b>Grid Reference</b>
Shillitoe Forest	Q22	SK 295748 - 295758
Shirehill	Q86	SK 054945
Sitch (Thornsetts)	Q87	SK 021874
Slack Edge	Q70	SK 015928
Slate Pit Moor	Q144	SD 996006
Slatepit Dale	Q26	SK 345678
Slatepit Plantation	Q153	SK 305735
South End Grassmoor	Q136	SK 419665
Spout House Hill	Q65	SK 275947
Stanton Moor	Q115	SK 240620-250645
Stoke Hall Goatscliff	Q176	SK 238770
Stone Edge Plantation	Q107	SK 340673
Stonebrake	Q105	SK 028978
Sugworth Delph	Q130	SK 234901
Sutton Lane	Q39	SK 436694
Sutton Scarsdale	Q37	SK 447687
Swineshaw reservoir	Q140	SK 046958
Tax Farm	Q30	SK 295633
Teggs Nose	Q7	SJ 948725
Temple Normanton	Q34	SK 416670
Thornseats Delf	Q33	SK 230925
Top Eccles Farm	Q14	SK 031810
Town End Royd	Q131	SK 284967
Tyas Quarry	Q55	SE 170031
Upperwood House	Q109	SE 022060
Wet Wivens, Eyam Moor	Q20	SK 226792
Whirlow & Whinfall	Q46	SK 309826
White Edge, Hathersage	Q66	SK 261786
White Knowle	Q169	SK 051830
White Rakes	Q5	SK 037843
White Tor	Q31	SK 310576 310573
Whitfield	Q59	SK 039933
Wimberry Moss	Q85	SJ 965765
Windgather Rocks	Q27	SJ 995782
Windyridge	Q114	SE 131056
Woodbrook	Q80	SK 282659
Woodhead Pass	Q108	SK 050986 - 084998
Worral	Q133	SK 315916
Wragg's quarry	Q79	SK 283664
Wrang Plantation	Q134	SK 440681

# The Quarry Records

The following pages are not numbered but they are arranged consecutively by a unique quarry record number shown in the top right hand corner.

There are some gaps in the numbering consequently there are no records for the following numbers -

Q 36  
Q 48  
Q 50  
Q 63  
Q 64  
Q 74  
Q 102  
Q 116  
Q 117  
Q 118  
Q 137  
Q 146  
Q 147  
Q 159  
Q 167

**Quarry Name** Goytsclough, Cat and Fiddle, Buxton

**Grid Ref** SK 013 734

**Database Ref** Q1

**Sample Ref** Q1 GCI

**Access** Good minor road from the north, but a one way system operates (southward direction only) at weekends etc.

**Description** Series of old workings c3 ha. Mainly massive or blocky material. Very little fissile material except at southernmost detached quarry south of the stream where there are 1-2cm leaves.

From south to north - At south flaggy and slatey at base massive above. At centre and north massive at base but flag or slate at the top. Main exposure is c100m x 30m tall. Whole length is c250m . Water but no electricity. Forests above and to the west. Ground surface rises to west much more steeply than dip so rapid increase in overburden up the dip. The thin material is mainly above the exposure but if it is also present at base throughout could be worked below ground level.

Largely overgrown and only small specimens available. Old water duct broken open by stream shows much flaggy material used in side walls and very large capping slabs - c1.5x1.5m - presumably from this quarry.

Referred to by Farey - as Goytesclough ; 60 shillings per rood of slating. (p430). Goytsclough was worked by the Pickford Family (ie founders of Pickfords Removals) who were in the area from the 17th C. Records exist of deliveries of flagstone nationwide.

Goyt Valley south of here is typically shaley with a number of coal workings as far south as Axe Edge.

**Geology** Towards the top of the Rough Rock      Farey's 2nd Grit

**Impacts** At SK 0115 7333 is a Regionally Important Geological Site (RIGS). Now a PPJPB picnic site and parking area. Footpath through quarry. Remote from houses. Sailing.

Varied moorland vegetation including Hard fern and Bulbous fern. PPJPB ref 0173.5. Outside Moor & Heath map.

**Quarry Name** Ambervale quarry

**GridRef** SK 333 629

**Database ID** Q 2

**Sample Ref** None

**Access** Quarry now filled in. No access

**Description** Only a small exposure visible. A bit of thin splitting rock and some shale.

**Geology** Chatsworth Grit

**Impacts**

**Quarry Name** Dane Bower

**GridRef** SK 014 701

**Database ID** Q3

**Sample ref** Dane

See also Reeve Edge Q18

**Access.** Access from A54 is along a narrow track.

**Description.** Several small shallow excavations in a north-westerly direction in generally slightly north-west rising ground above a river which drops steeply below. Exposures mainly show thickly bedded sandstone. Extensive tips over 2 - 3 Ha some up to 15 m tall. Mostly blocky but some flag and slate thickness. No power supply

**Geology.** Middle and higher parts of Rough Rock

**Impacts.** Within the Moor & Heath map.

Remote from habitation - nearest farm 1km. Remains of workers huts.

Stream runs through quarries which are partly flooded.

Tips containing finer waste are in part covered with heather or grass.

Direct access on to A54 is difficult.

**Quarry Name** Craken Edge Chinley Churn..

**Grid Ref** SK 037835

**Database ID** Q 4

**Sample Ref** Q 4

See also White Rakes Q5

**Access** Foot access only but there is a (LR/T?) track in from south. Line of old incline into valley. LR track up to farms at White Rakes. Former incline and winding gear at south end.

**Description** A long (1km) series of quarries following the strike which is roughly north - south. Dip is west at about the same angle as the surface which rises again further west. Development has been to work each quarry towards the west tipping behind as the face progresses. First quarry is c400m long (NS). The tips extend below more than would be expected - may have been worked at a lower level (same level as track) and are now buried. Not much water - only on surface, no electricity.

**Geology** Rough Rock Flags. Slatey beds are c1m thick, are not continuous horizontally and are generally at the top of the exposure but they also occur at base and were mined above Brierley Fields SK 038848. *Chapel en le Frith Memoir - Rough Rock Flags .... reach a maximum development in the area north -east and east of Chinley Churn. In this area the RRF were formerly much worked for flagstones and in several places the workings were underground for a short distance. The best section is at the north end of the quarries. (White Rakes). RRF SS, yellow brown flaggy with coarse bands at base -- 30ft.*

*Despite the apparent continuity with the workings above Buxworth Crist and Eccles these are in fact in the lower Chatsworth grit*

6" map shows Slate Breaks at SK 037837. Cameron p78 refers to the Slate Brecks, the Sleitte Breckes & Slatte Breckes (1640 map) References also to unspecified locations in Chinley, Buxworth and Brownside parish, Breckland etc, Brecks and fieldnames - Slate Pit Field, Slack Pitts,

Farey refers to Chinley (Churn) near Chaple en le Frith, 2nd grit. Peak Forest railway near by.

**Impacts** This is designated a Regionally Important Geological Site (RIGS) It is also important enough to justify conservation as an industrial heritage site.

Within the Moor & Heath map.

On the skyline. No housing near by but farms and houses below.

**Quarry Name** Craken Edge Chinley Churn..

**Grid Ref** SK 037835

**Database ID** Q 4

**Sample Ref** Q 4

See also White Rakes Q5

**Access** Foot access only but there is a (LR/T?) track in from south. Line of old incline into valley. LR track up to farms at White Rakes. Former incline and winding gear at south end.

**Description** A long (1km) series of quarries following the strike which is roughly north - south. Dip is west at about the same angle as the surface which rises again further west. Development has been to work each quarry towards the west tipping behind as the face progresses. First quarry is c400m long (NS). The tips extend below more than would be expected - may have been worked at a lower level (same level as track) and are now buried. Not much water - only on surface, no electricity.

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Farey refers to Chinley (Churn) near Chaple en le Frith, 2nd grit. Peak Forest railway near by.

**Impacts** This is designated a Regionally Important Geological Site (RIGS) It is also important enough to justify conservation as an industrial heritage site.

Within the Moor & Heath map.

On the skyline. No housing near by but farms and houses below.

**Quarry Name** Cown Edge

**GridRef** SK 022 918

**Database ID** Q 6

**Sample Ref** Q 6

**Access.** Near Charlesworth. Foot access from Monks Rd between A624 and A626. Old cart track up from farms.

**Description.** The scarp strikes SW to NE and has been quarried parallel to the strike in a series of three quarries. The largest northerly quarry is excavated about 100 m and is about 50 m wide. Some slates and flaggs at the top massive below. Slates / flags about 4 m thick, massive about 6 m. The dip is NW roughly parallel with the topography which rises again further west and then falls towards Charlesworth where there are two more quarries. No water or power.

**Geology.** Rough Rock Buff coloured (Munsell 2.5Y 6/4).

*Chapel en le Frith Memoir p243 - An old quarry west of Sitch shows 40 ft of coarse ss, massive in the lower part but more thinley bedded above*

**Impacts.** Although the quarries are on the skyline they are not visible from the road. The tips below are visible although they are overgrown now. Visual impact slight - visible from minor road - few houses in vicinity. Farms to SE with track leading up to quarry area. Footpath through the quarry.

Within the Moor & Heath map.

**Quarry Name** Teggs Nose

**GridRef** SJ948725

**Database ID** Q7

**Sample Ref** Q7

**Access** Wide track in from Buxton Old Road.

**Description** Long site following the strike. Each end has been developed at a lower level than the centre although at the south end there is a deeper hole. The central section is a high face - 10 to 15m - on the West side. Little overburden. Potential to develop in westward direction or at depth. Could be operated as galleries. Total length about 0.75 km.

Although there is evidence of fissile rock it is so faulted as to be unsuitable for roofing. Record of 100 tons a day of aggregate produced here in a jaw crusher.

**Geology** Farey's 4th grit. Chatsworth Grit. Bedding dips WNW about 40. Brownish-red to pink and mauve. Beds of heavily faulted massive, flag & slate sandstone and very crumbly shale.

**Impacts.** Outside the Peak Park and the Moor and Heath map. Country Park (Cheshire CC). Visible from East but not from West. Car park. Climbing & walking. No housing but there are two farms in the vicinity.

<b><u>Quarry Name</u></b>	Marksend Quarry.	Kerridge	
<b><u>GridRef</u></b>	SJ 943 757	<b><u>Database ID</u></b>	Q8
		<b><u>Sample Ref</u></b>	None

**Access** Truck access from road.

**Description** Large quarry being worked for aggregates and building stone. Described as too hard for roofing. ("Dosen't bed down into roof".) Owned by A M & D Earl. Sell wallstone, crazy paving and rockery stone in Cheshire lilac and Kerridge gray/fawn..

Also own Sycamore Quarry further NW along hill.

**Geology** Milnrow Sandstone

**Impacts** Outside the Peak Park and the Moor and Heath map. Operating quarry so no new impact.

**Quarry Name** Kerridge Macstone Quarry.

**GridRef** SJ 939 763

**Database ID** Q 8/2

**Sample Ref** Q 8

**Access** Truck access from road

**Description** Large quarry owned by Macclesfield Stone Co 194 - 198 New St Biddulph Moor Stoke on Trent ST8 7NW 0782 514 353 and Bollington 0625 73208.

25 5 95 Have now entered slate beds with considerable reserve although it is repeatedly displaced horizontally and vertically. Trial production and marketing commenced.

**Geology** Milnrow sandstone.

**Impacts.** Outside the Peak Park and the Moor and Heath map. Working quarry so no new impact

**Quarry Name** Bakestonedale Moor. Moorside quarry Potts Shrigley

**GridRef** SJ 953800

**Database ID** Q9

**Sample Ref** Q9

**Access** Haul road in from main rd.

**Description** Very large quarry which has been filled in and partly planted by Peak Park and Countryside Commission. Dip is c40 west northwest and topography is parallel. Has been worked uphill up the dip so there is constant overburden and not much anyway. Old workings continue to E to c. SJ960 800

Modern operation not active and subject in part to a restoration scheme. Adjacent land to south has undergone a reclamation scheme to address coal workings (incl. underground operations.) clay and possibly ganister workings which presumably supplied the nearby brickworks (produced refractories ?) Covers an area of about 6-10ha. Faces c 30m high in 2 benches. Modern quarry appears to have extensive areas of flaggy reserves but on closer inspection the material tends to be in leaves which are either slightly curved or too thick to be used for s/s - typically 3-4 cm thick, medium to coarse grained. No samples.

Older operations to ENE tend to echo this and are particularly coarsely grained. Very few beds would produce good s/s even though they are about 5m deep. Leaves break off irregularly, thickness wedging out and often having curved surfaces. Cross bedding again common.

Clearly from the name and Farey ref this was a 'classic' source but it may have been more suited to bakestones than roofing material. It would require a careful survey into identify a viable roofing deposit.

Generally noticeably light cream when freshly broken but appear to weather relatively quickly in the smoky atmosphere to dark brown /black.  
No electricity but it is not very far away. Surface water nearby.

Going up to top of Bakestonedale Moor there is a small quarry on the right and another at Charles Head (Not visited)

**Geology** Farey's 3rd grit. Milnrow sandstone (MS) ie sstn between Woodhead Hill Rock and Old Lawrence Rock (coal just below is the Big Smut Coal) Appears to be very siliceous, hard and to have very little feldspar. True dip 80° NW

**Impacts** Except that it is now a conservation area there are no impacts. It is well away from all habitation except the small industrial estate. It is not really visible except from the distant west. Some extensive open views especially to west over the Cheshire Plain.

Moorside quarry is ceased planning ref 5394.

Regionally Important Geological Site RIGS. Outside the Moor & Heath map.

**Quarry Name** Chunal

**Grid Ref** SK 036913

**Database Ref** Q10

**Sample Ref** Chl

**Access** Adjacent to main road

**Description** Referred to by Farey. A series of roadside quarries of various sizes, largest of which is adjacent to the main road and contains the most evident face. The main complex of workings to the east comprise mainly dumps of flaggy material but only very small areas of exposed faces along the southern edge. Total depth of workings c7m. Flaggy material in the walls.

The deep valley to the east is known as Bakestone Delph Clough (SK 058 915) on 1:25000 Map - apparently bakestones were produced by digging for isolated blocks found near the base of the peat overlying bedded material. (Article on Glossop history). Also place name "Worm Stones" nearby may be relevant.

**Geology** Upper (relatively thin) leaf of Kinderscout Grit. Well, or irregularly bedded flaggy material. The unworked ground surface to the south (ie beyond boundary wall) is parallel with bedding plane. This suggests that the site was closed when workings reached the ownership boundary - on this basis, the site appears to be a potential prospect.

**Impacts** Open site near the main road visible from a wide area. Outside the Moor & Heath map.

**Quarry Name** Abney Moor 3 quarries.

**GridRef** SK 189803 & 181807 **Database ID** Q11

**Sample Ref** Q11

See also Wet Wivens in database

**Access** Remote with very narrow lane in from Abney. From north there is a long steep unsurfaced road/track.

**Description** The Q's at SK 189803 by the junction of the lane from Abney are just scrapes in the ground.

At the scarp edge overlooking Castleton, SK 181807, there may have been a more substantial working but it is all covered over now and there is nothing to see. There is no evidence of slatey material anywhere although there are plenty of walls with thinnish material.

**Geology** Farey refers to Abney in Hope Shale grit. There is a scatter of very many small quarries in this area. They are overgrown and mostly less than 2' deep. Most of the following records are from the 6" geology map.

SK 195795	Flaggy	4.5' quarry	Abney
SK 197791	Flaggy	5' outcrop	Abney
SK 194797	Flaggy along valley	400 m long	Abney
SK 207781	Slatepit Plantation		Bretton
SK 188786	Sandstone outcrop		Abney Grange
SK 218796	Flaggy sandstone in valley	700 m	Highlow Brook
SK 179787	Outcrop just south of old quarry on west edge		
	28' sstn well bedded with coarse massive above		
	20' shale with some thin sstn bands		
	6.5' sstn		
	2.5' flaggy sstn and siltstone		
	17' medium grained thin bedded sstn		
	Probably indicative of a section of the shale grit		
SK 196783	Base of sequence on the edge of the plateau near Bretton		
	13' shale with thin sstn.		
	19' thin bedded sstn		
	3' thin bedded sstn		
	5' silty shale with thin sstn		
SK 183782	Old quarry on Hucklow Edge		
	22' sstn thin bedded below, massive above.		
SK 190803	6' medium grained flaggy sstn		NW of Abney

**Impacts** Nature reserve across the track from SK181807. Partly within Moor & Heath map.

**Quarry Name** Edge Quarry at Manners Wood Bakewell

**GridRef** SK 232 684

**Database ID** Q 12

**Sample Ref** Q 12

**Access** Long, disused, well built cart track in from narrow steep and twisting Handley Lane at west end of woods.

**Description** There has been a large working here along a substantial length of the scarp. There is a well built track right along to the easternmost working. (The one marked on the map.) The highest west workings appear to be massive only. The eastern quarries are completely covered over and what little rock there is showing doesn't look slaty. There are three holes around a bluff and another smaller one below.

Below the west exposures there is a poorer track above what appears to be tips but they are completely overgrown.

**Geology** Lower Ashover Grit.

**Impacts** Well hidden in a section 3 woodland. Alongside a golf course. Several footpaths through the woods courtesy of Haddon Estate. No housing nearby.

Outside Moor & Heath map.

**Quarry Name** Rowarth. Higher Harthill & Laneside quarries (Also two quarries on opposite hill.)

**GridRef** SK018886                      **Database ID**      Q13  
SK023882

**Sample Ref**                      Q13

**Access** Narrow cart track up from Laneside Farm. Suitable for small truck or tractor & trailer if leveled. Owners ?Aspenshaw farm.

**Description** Lower quarries are smaller than upper and have worked up the "ridge" approximately following the strike. The slate dips (20-30) to the south west and has been worked from the N to the S so there is little overburden to remove. Slaty cleavage is mainly in the top

The upper quarries have been worked uphill (eastwards) in steps. The dip is about the same 25 SW at the top of the exposure but is shallower below. There is up to 4m of thin cleaving rock at the top. The lower of the two biggest holes has been worked to about 10m depth.

The two quarries on the opposite hill are small with nothing to be seen.

No electricity. plenty of surface water and streams near by.

**Geology** Rough Rock

**Impacts** Isolated and not very visible even though it is on the hillside. Footpath between the upper and lower and close alongside the lower.

Two dormant/lapsed plannings in this area - Higher Harthill SK 019895 ref 3662 and Laneside SK 019836 ref 2396.

Upper quarry is within Moor & Heath area. May be site of Ladyfern and Hardfern PPJPB record 08NW 0188/2.

**Quarry Name** Top Eccles

**GridRef** SK 031 810

**Database ID** Q14

**Sample Ref** Q14

**Access** Via long, very narrow and in places steep public road - immediate access from road via a short track past Top Eccles Farm. Water and electricity near by.

**Description** Two quarries worked northwards into the hill as deep holes about 30m square. There is a good thickness of thin cleaving stone at the top only. Dip is quite steep c45° SW but varies. The appearance is very similar to Buxworth Crist. Stone varies from gray to red - coarse grained. There is a series of small excavations running west to east more or less along the crest of the strike up to the top of Eccles Pike. Possibly this was following the slaty material.

**Geology** Chatsworth Grit. The southwards offset continuation of Cracken Edge.

Quarry - Approaching top of Chatsworth Grit. Extremely well defined and consistent cross bedding - especially near the top of the outcrop. Leaves c 2-3 cm thick. Clearly some unworked good material readily accessible within the quarry.

Eccles Pike - near the base of the Chatsworth Grit - some of the outcrops are of coarse massive grit especially at the top of the ridge - slightly to the WSW beds become flaggy and red and a series of shallow workings can be seen in this direction heading towards the main quarry - thus indicating continuity. NB small fault cuts across the ridge possibly between the coarse and the flaggy material.

Extensive and largely unbroken dip slope of Chatsworth Grit has been worked at top rim of scarp (Eccles Pike Quarry), at bottom of slope (Crist) and in the middle of the slope around Eccles Fold qv.

**Impacts** Outside the Peak Park. Isolated except for one small farm below. Well hidden in the existing quarry although working the ridge would be more visible. A good prospect. Applications have already been turned down twice.

The Pike itself is National Trust land so it is probably inalienable; extensive views over a wide area but nearer the former quarry, some very small scale working may be possible without much visual intrusion given careful control. Ridge is so exposed that tree screening is unlikely to be a practical proposition. Access poor.

If planning constraints could be overcome this might be a very good prospect.

**Quarry Name** Dutton's Quarry

**GridRef** SK 336 626

**Database ID** Q15

**Sample Ref** None

**Access** Across farm land from Holestone Gate Road or along a track from the bend in the same road.

**Description** Large quarry worked along the strike with the possibility of working south-westerly into the fields towards the road. Dip is with, but steeper than, the land surface. Mainly massive with some thin splitting rock at the top.

**Geology** Ashover Grit.

**Impacts** Recreational area. Working would be visible from below and across the Ashover valley.

**Quarry Name** Derbyshire Oaks Quarry \*

**GridRef** SK 337 605

**Database ID** Q16

**Sample Ref** None

**Access** Good track in from the minor road to the east.

**Description** \*Small quarry of this name plus a large adjacent quarry which includes sand. The large quarry is being worked for walling stone. No sign of any flaggy or slatey rock. Previously worked as 2/3 levels but there is considerable overburden. Reputation is as a millstone quarry. Possibly the quarry was abandoned at the present level because the availability or quality was not good enough.

Small crescent shaped quarry to the west. Deep and narrow. Looks as though it was following a good "vein"

**Geology** Chatsworth Grit

**Impacts** Well hidden from the surrounding area. Little obvious impact except to two houses nearby.

**Quarry Name** Dane Head. Axe Edge Moor, Buxton.

**GridRef** SK 027 703

**Database ID** Q17

**Sample Ref** None

**Access** Track off minor road across Axe Edge Moor

**Description** May be Farey's Wincle Chapel (Dane Head and Blackclough) although he may have included Dane Bower and Reeve Edge within this reference. Wincle chapel is 8km south west along the Dane Valley.

Two small depressions one with thickly cleaved sandstone outcrops. At Cheeks Hill 0.75km to south west is Bakestone Edge - further evidence of fissile rock in the general area.

**Geology** Near the base of the Rough Rock. There are many other sandstones in the Wincle area.

Farey's 3rd Grit.

**Impacts** Within the Moor & Heath map. In open moorland crossed by busy roads. A small quarry could be unobtrusive.

**Quarry Name** Reeve Edge

(See also Dane Bower)

**GridRef** SK 015 700

**Database ID** Q18

**Sample ref** Q2 RE

**Access.** In Derbyshire but close to the border with Cheshire. Access from A54 is through Dane Bower Quarry and across the River Dane, but no bridge, and up steeply rising west side of "gorge" through tips.

**Description.** A long excavation, 150 m, driven easterly in rising (SW to NE) ground. Slightly beyond the excavation the ground rises northwards. Working to the NW would quickly become mining because of dip 45°. The faces are up to 18 m tall with large slabs - up to 1m across - suitable for roofing. However bedding becomes more uneven within a few meters.

Main period of operations appears to have been 1850 to 1900 and the site is not mentioned by Farey. Remains of shelters and may have been served by a narrow gauge railway.

Water available below and maybe above. No power supply.

**Geology.** Middle of the Rough Rock. Looking along the axis of the excavation bedding dips 45° NW & SE. Slate material at the bottom and top of excavation although much of the top two thirds is massive with incipient false bedding. Crossbedding is very marked in the lower part of the exposure and in a small quarry to the north.

Overburden is thin but there is a cap of thickly bedded rock (suitable for flags and walling) immediately below this and above the slate beds.

A good prospect for small scale mixed production of slate, flag, walling etc.

**Impacts** Within an SSSI and the Moor & Heath map. On the skyline when viewed from the A54 but the quarry is only visible from directly opposite. The tips are visible from nearby but new working might be able to tip within the old quarry. Remote from habitation - nearest is a farm c1km south. Footpath along the access track and through the tips.

The Orchard Common Stream to the west at SK 023 691 is a Regionally Important Geological Site RIGS. This is on Peak Park land.

**Quarry Name** Free Birch

**GridRef** SK 310726

**Database ID** Q19

**Sample Ref** Q19 FB

**Access** Lane off B6050 suitable for small truck and through market garden. Potentially an alternative through farmland.

**Description** Excavations are alongside a deep ravine but it appears to have been worked only at the top on the level ground. Lot of slabs and blocks down the ravine side. On the level ground a series of bell pits in a very disorganised state with waste piled up all around. No sign of roofing material - in fact almost no exposures - but there are plenty of large slabs lying about and some have laminated. Extensive former workings and dumps. Flags very big up to 0.75m in length.

Referred to by Farey as Threebirches.

Farey also refers to Grange Bar - presumably a former tollbar at Grange Hill - SK 313735, but no clear sign of mineral workings here.

NB numerous other small workings on the general area (not examined) for example two near Flat Farm SK 307731 & 308731 (Top of WF); two at Hare Edge SK300724 & SK301725 (in small detached lower leaf of WF); Moorhay Farm SK 310724 (probably near the top of the main leaf of WF). See also Slatepit Plantation and Puddingpie to north and south.

**Geology** Top of Wingfield Flags - nb. at top of WF is the Kilburn Coal some of the workings in the east may have been for coal. Beds almost horizontal. Northern edge defined by top of main leaf of WF; southern edge by a fault. Mainly cross bedded material. Surface of flags shows minor trough features.

Outcrop extends to west and ENE.

**Impacts** Houses and garden center along track from B6050. the main area is just outside the Moor and Heath map but some workings may be inside.

**Quarry Name** Wet Withens, Eyam Moor, Leam, Grindleford

**Grid Ref** SK 226 792

**Database Ref** Q 20

**Sample Ref** None

**Access** About 0.5 km across a grouse moor from a minor road.

**Description** A scatter of old shallow workings c2-3m deep and tips of flaggy material over c2-3 ha. Partly covered in heather and whinberry. Very few outcrops.

Listed by Farey as Wet Wivens.

**Geology** Narrow thin outcrop of a detached lower leaf of the Kinderscout Grit.

Farey: Shale Grit.

**Impacts** Within the Moor & Heath map. Surrounded by designated Ancient Monuments - Cairns and Stone Circle.

**Quarry Name** Hardwick Hall (a)

**Grid Ref** SK 454640

**Database Ref** Q21

**Sample Ref** Q21

**Access** Adjacent to minor road through Hardwick Hall Estate

**Description** Working estate quarry for the National Trust. Application currently (3/95) to extend c30ft face.

**Geology** Sandstone between Top Hard and High Hazels Coal. Mainly massive sandstone with a rather conchoidal fracture. Very sandy, presumably soft and friable. Buff/orange colour. No clear evidence of any flaggy material.

**Impacts** Already a working quarry. Within Hardwick Hall, National Trust.

**Quarry Name** Shillitoe Forest near Unthank at Ramsley moor

**GridRef** From SK 295748  
to SK 295758

**Database ID** Q 22

**Sample Ref** Q 22

**Access** Alongside roads around Shillitoe Forest.

**Description** There are small surface excavations all along the roads but nothing which indicates significant production. Land owned by PPJPB.

**Geology** Loxley Edge Rock

**Impacts** A fairly remote site but alongside a road. Surrounded by open moorland and woodland.

**Quarry Name** Brown Edge\*, Ringinglow, Sheffield (W)

**Grid Ref** a SK 277 838\*\*  
b SK 278842  
c SK 277 835

**Database Ref** Q23

**Sample Ref** BE 1&2

**Access** Poor quarry track over marsh c 400m from Ringinglow Road (key route into Sheffield) - Better but longer access from the north via Brown Edge Farm to Fulwood Lane.

**Description** \* Not to be confused with another Brown Edge at Totley 5.5km to SSE

(a) \* \* Main operation. One of the largest operations seen in the survey - covers c.12Ha. Referred to by Farey. Shown at about its present extent on 1869 6" Geol Map referred to as "finely grained sstns massive, flaggy and concretionary with tilestones" - topographic base refers to "Slate Quarries"

Extensive tips and working 7-10m deep - main feature is large mainly overgrown dumps almost largely of flaggy material. Operations are at c 400m above OD. Likely to have produced a wide range of slab/flag thicknesses. Almost certainly, with Fulwood Booth to north, the main source of s/s for early 19th C. Sheffield.

(b) Similar much smaller workings around the farm may once produced a wide range of slab/flag thicknesses..

(b) Similar much smaller workings around the farm may once have been continuous with (a) land in between having been reclaimed for farming.

(c) No clear evidence of workings - former workings shown on some maps but may have been due to shallow coal operations.

Careful examination is likely to locate some remaining workable s/s material.

**Geology** All operations in Rough Rock (RR). Workings appear to have closed as they faced increasing overburden ie mudstones above the Pot Clay Marine Band. Main workings concentrated in most of the upper half of the RR or possibly much of the thickness of the RR. Only remaining open faces are up to 10m at NW end of site - these show significant amounts of very thinly laminated (-5mm partings) material. - also some more massive beds with iron sand balls. Generally fine-grained and often micaceous.

Farey - 3rd Grit

**Impacts** Extensive views from the site over West Sheffield, but gradual slope and former workings are capable of hiding any small scale new operations. Public footpath across the site is heavily used.

Within Moor & Heath map.

**Quarry Name** Bolehill (2), Bamford

**Grid Ref** SK219 841

**Database Ref** Q24

**Sample Ref** BAM 2\*

**Access** Directly off very narrow public road

**Description** Very small quarry - a few metres across and 1.5m deep but containing some good stone slate material - leaves 1.5 - 2.5 cm thick. Not listed by Farey but appears to be shown on 1st Edition 1' OS Map as "Slate Pit" (although wording on map is just on opposite side of the road). However it is clearly not Bamford Moor (qv).

\*Sample is slightly thicker and redder (others brown) than the average in the face - no other loose material available for collecting.

**Geology** Right at the base of the Kinderscout Grit. Very small tip. Real dip noted on Geol Map as 30 to NE

**Impacts** Outside the Moor and Heath map.

**Quarry Name** Coalburn Quarry, Wingfield Park, South Wingfield.

**Grid Ref** SK 375 539

**Database Ref** Q 25

**Sample Ref** None

**Access** Steep zig-zag track (50m) from fairly narrow minor road.

**Description** Coalburn is the modern spelling - Referred to by Farey as Coburn and also in other references it is known as Colburn. Not in the main Farey list but referred to in the text as producing "a strong sort of eaves slates for thatched buildings near a yard high are sold @ 1/- per yard run " and (p431) "produces ridging stones as a substitute for ridge tiles hewn out like an angular trough which usually spans 11" sold @ 20d per yard run".

Not shown on 1st Edition OS Map nor are any other quarries in the area.

Medium large but compact quarry. Faces c 10-15m

Tripod crane (rotten wood/iron) erected in late 19C and a small hut with a tiled roof which has recently collapsed. Last worked in the 1940's.

Wingfield Flags are used extensively in South Wingfield for roofs and walls but there is no obvious source. Possible source may be in a small wooded area just south of the village. Deep cutting on road to Alfreton (SK376 557) could have been the lower leaf of Wingfield Flags. Area merits further search.

**Geology** Near the base of the Wingfield Flags. Dip 60 due east. Massive, blocky and thick flags . Warm rich orange/buff colour. Top is rather flaggy

**Impacts** New house opposite.

**Quarry Name** Slate Pit Dale, Stanage, Walton, Chesterfield

**Grid Ref** SK 345 678

**Database Ref** Q 26

**Sample Ref** SPD

**Access** Direct access from the A637 is possible but access via a minor road may be more acceptable.

**Description** Farey refers to Stanage, north-west of Wingerworth. The original quarry is now enlarged by the main road cutting. Adjacent and to the south the slightly rough ground was also probably worked and possibly also the wooded area beyond - Simpson's Plantation. Good examples of stone slate can be seen in the road cutting including "wavy" micro cross bedding c4cm deep. There are also good examples in the walls.

The outcrops to the north-west might be suitable but have not been checked.

Cameron p321 - Slate Pit Dale - 1750 Enclosure Award

**Geology** Wingfield Flags - base of main bed. Outcrop can be followed to the east (see above), then in walls and holly and scrub to the south and then the south-east as far as Great Stubbing Pond. The last part of the outcrop is a detached lower leaf.

Farey - 3rd Grit

**Impacts** Outside the National Park. Given careful planning to avoid visual intrusion to road users development might be acceptable. Access via the minor road may be more acceptable than from the main road.

**Quarry Name** Windgather Rocks, Kettlehulme, Whaley Bridge

**Grid Ref** SJ 995 782

**Database Ref** Q27

**Sample Ref** W

**Access** Adjacent to a narrow minor road.

**Description** Prominent north-south ridge craggy for c0.3 km (but max of only 7-15m high crags). At the point where the road comes alongside the crags there are one or two small quarries. Most of the area to the east of the minor road was formerly Chatsworth land then sold to Stockport Water - now North West Water.

Very bleak west facing position. Almost certainly the source of the many stone slate roofs in Kettlehulme.

**Geology** Base of the Chatsworth Grit. Grit dips east at 150°; the outcrop is relatively narrow (0.3 km) but fairly consistent to the south - some north-south faulting - even narrower just to the north and in places has separate leaves. Higher up in the sequence there are thin coals.

At the end of the crags, in the quarries alongside the road, there is some impressive regular flaggy cross-bedded material over a height of c8m. Similar in appearance to Eccles Pike but possibly coarser in thickness of leaves and grain size. Crags appear to be coarse and massive but even from a distance they show signs of incipient cross bedding.

The flaggy material in the walls continues southward along a minor road to Pym Chair and on down 'The Street' to Errwood Reservoir. Small outcrops along The Street and at edge of the Reservoir (backscarp of small landslide) are also flaggy.

**Impacts** Within the Moor & Heath map. The crags to south are popular for rock climbing. A very open position to the east and west over the Peak Park. Working would require very careful control.

**Quarry Name** Bolehill, Wingerworth

**Grid Ref** SK 368 661

**Database Ref** Q 28

**Sample Ref** BH1

**Access** Existing active quarry

**Description** Most of quarry is now covered by modern works and stores. Very small sections at top appear to be only slightly flaggy but otherwise massive medium grained sandstone.

**Geology** Wingfield Flags near the top of the sequence. Massive sandy area here is atypical of Wingfield Flags and represents a major E-W channel.

**Impacts** If any workable material it is likely to be on top to SW and would require the removal of tree cover which would be seen from broad a area to east. Dip is towards the valley and removal of beds lower down slope has already give rise to landslips with back-crevasse features

**Quarry Name** Buxworth Crist Quarry, Buxworth, Whaley Bridge

**Grid Ref** SK 027 818

**Database Ref** Q 29

**Sample Ref** None

**Access** Very narrow public road via small hamlets - eg Barren Clough.

**Description** Former medium sized quarry part filled with waste, including asbestos then capped with fill in 1980's and the north end access curtailed by the Chapel / Whaley Bridge by-pass. Mainly worked in the past (19th C) via a short access tunnel to supply building stone to the railway and possibly the canal. Presumably this is the site referred to by Farey as "Bugsworth in Glossop." Only limited sections remain in the original quarry area and its strong association with engineering stone would appear to contradict it as a source of slates. However the deep road cutting immediately to the south, which could itself have been in part a small quarry, does demonstrate that Crist could have been a source.

**Geology** Beds are towards the top of the Chatsworth Grit (NB whole of the Millstone Grit sequence here is very thin, especially the sandstone members). Dip is c 150 - 200 to WNW.

Following the approximate section seen in the adjacent road cutting to the south:

Thickness in metres

- ?? Well flagged and weathered - heavily overgrown
- 2.0 Cross bedded leaves vary in thickness
- 0.6 Flaggy but irregular sandstone
- c2.0 Shale
- 0.4 Massive sandstone
- ?? Shale
- 0.6 Massive sandstone
- 0.75 Blocky sandstone with shale - sandstone friable with fine cross bedding
- 0.3 Blocky sandstone
- 0.2 Red Mudstone
- c3.0 Massive sandstone

Total c 10m

Topmost beds appear to be of reasonably good flaggy material. (cf Eccles Pike and Eccles Fold)

Farey - "3rd Grit" if the situation is as noted above.

**Impacts** Road access is poor and any more traffic could give rise to many objections. potential for improving access has been reduced by building of by-pass. Risk of disturbing asbestos. Outside Moor & Heath map.

**Quarry Name** Tax Farm, Sydnop Stand. Farley Hill, Matlock.

**GridRef** SK 295 633

**Database ID** Q 30

**Sample Ref** None

**Access** Good farm track off a good minor road.

**Description** Fairly extensive old workings with some apparently more recent. Considerable tree cover and some waste tipping. This is the counterpart and a continuation of Fairly Moor quarry across the road.

Generally fairly friable thick bedded and brown. Small amount of thin beds which are also friable. Not a good prospect for roofing.

**Geology** Near the base of the Chatsworth Grit.

**Impacts** Visible from across the valley and parts of the Derwent valley. Outside Moor & Heath map.

**Quarry Name** White Tor, Hearthstone, Riber, near Matlock

**Grid Ref** (a) SK 310 576  
(b) SK 310 573

**Database Ref** Q 31

**Sample Ref** Q31 WT

**Access** Very difficult access from a narrow farm track (bridleway) from Hearthstone hamlet, then down a boggy overgrown track to (a) then across a field for (b). There may be an alternative route to (b) from Meadow Wood Farm

**Description** Map references and locations cannot be guaranteed. Listed by Farey as "Harston South, Matlock, (White Tor) Harston = Hearthstone, but Cameron is not helpful on earliest references. Also, at SK 312 572 is Breck's Wood (cf "slate breaks" at Chinley).

Two sets of workings to the north and south of a field.

Southern workings (b) - large face c17-20 m. Some flaggy but mostly blocky material, some more massive. Most of flaggy material has much accompanying shale. There are large dumps nearby.

Northern workings (a) no rock face exposed now - irregular tips. Sample taken from adjacent wall.

These and neighbouring quarries probably supplied roofing for Cromford and Starkholmes etc. Very few examples of roofs remain eg Cromford Bridge House and Bridge Chapel.

**Geology** Northern quarry is in a locally thin lower leaf of the Ashover Grit. Large quarry (b) is within a large landslip - c0.5 km<sup>2</sup> - probably also Ashover Grit.

Farey -Shale Grit

**Impacts**

**Quarry Name** Redcarr Hillside (Hardwick Wood), Wingerworth

**Grid Ref** SK 368658

**Database Ref** Q 32

**Sample Ref**

**Access** Near a minor road south of Bolehill quarry - qv.

**Description** Two small quarries c2m deep in mature woodland showing very good flags.

**Geology** Wingfield Flags - very near to the base. To the northwest this splits off as a separate leaf.

**Impacts** Would require the removal of woodland. On a narrow public road.

**Quarry Name** Thornseat Delf, Strines, Bradfield,

**Grid Ref** SK 230 925

**Database Ref** Q 33

**Sample Ref** Q 33 Th

**Access** Via a long former quarry road - about 700m - "Thornseat Road" off a good minor road through Strines. Access road passable with 4 wheel drive or possible a small truck.

**Description** Not in Farey's list despite scale and implied antiquity - not to be confused with Thornsett on his list which is near Glossop. Shown on the 1st Edition 6" Geol Map; Labelled as Slate Quarries on the 1st Edition 1" Geological Map (Topographical base 1840).

Bleak moortop site c.425m above OD. Neighbouring land is grouse moor and commercial woodland. Adjacent former Grouse Inn appears to have been demolished recently and part of site used for a small radio/monitoring station(?) - hence reasonable access. Demolished building shows cream/buff stone including some very good paving material.

Extensive workings and tips c8-9 Ha. Heavily overgrown by heather and whinberry. Very few exposures even of tipped material and these are poor. No exposed faces were found. There appears to have been very little change in extent of operations since the 1865 6" Geological map.

**Geology** Heyden Rock, ie below the Ashover Grit and above the Kinderscout Grit. The Chatsworth Grit and the Ashover Grit are very thin or absent in this area. Dip in area c6-15° to the southeast.

**Impacts** Within the Moor & Heath map.

**Quarry Name** Temple Normanton

**Grid Ref** SK 416 670

**Database Ref** Q 34

**Sample Ref** Q 34

**Access** About 300m across a field from a road.

**Description** A scrubby area in a small valley. Area shown on 1st Edition OS 1" Map as a limestone quarry. Apparent former quarry site - probably largely filled in and reshaped as a result of adjacent open cast coal operations (coal operations surrounded the site). Very little sandstone material - there is occasional flaggy material but appears to have been more likely a clay working.

Philadelphia Farm, 500m to the west, has barn with stone slate roofs - sample Ph. Some flaggy walls a little to the north in Temple Normanton - no stone slate roofs in the village.

**Geology** Above the Top Hard coal; the sandstone immediately below the High Hazels Coal (NB this is not same sandstone as that at Temple Normanton village)

**Impacts** Unlikely to be workable but apparently very little impact.

**Quarry Name** Press, nr Tupton

**Grid Ref** SK371652

**Database Ref** Q 35

**Sample Ref** Q 35 Pr

**Access** Via a farm lane across fields from a minor road.

**Description** Medium scale quarry long abandoned and now with mature trees. Faces up c8m with some flaggy material.

**Geology** Wingfield Flags - here relatively thin but flaggy.

**Impacts** Potential loss of tree cover but not a prominent quarry

No record Q36

**Quarry Name** Sutton Scarsdale: Main Street Bolsover

**Grid Ref** SK 447 687

**Database Ref** Q 37

**Sample Ref** SC<sup>+</sup>  
<sup>+</sup>From wall

**Access** Adjacent to the village street. Main Street is possibly known as Palterton Lane.

**Description** A quarry shown on the 1st Edition 1" Map and 6" Geol Map. The location not clear - if it is to the north of road it is now regraded and planted or, if it is to the south then it has been built over by large barns.

**Geology** Sandstone immediately above the High Hazels Coal

**Impacts** Very close to properties in village.

**Quarry Name** Astwith (a & b), Hardwick.

**Grid Ref** (a) SK 440 639  
(b) SK 436 638

**Database Ref** Q 38

**Sample Ref** ASW

**Access** Off a private road to a house

**Description**

(a) On current 1:25000 scale OS Map. A medium scale quarry adjacent to a cottage or farmhouse. An outbuilding has a stone slate roof but only three courses remain. Local people suggest this was the main source of stone for the village. Quarry is partly filled-in. Material in quarry is mainly blocky or massive but there is some flaggy material near the east end.

May possibly be the "Locko Lane in N Wingfield" site of Farey but this appears to be unlikely.

(b) On 1st Edn OS Map "Sandstone Quarries" are shown at this general location but their precise sites are unclear. They were not found. May possibly be a reference to the above quarry or to another site to the west. If the latter, it is possibly now in a wooded area. If this location is correct this is more likely to be Farey's Locko Lane site.

**Geology** (a) Sandstone above the first Ell Coal  
(b) either the sandstone above the first Ell Coal or the sandstone below the second Ell Coal and above "Clay Cross" Marine Band (now renamed).

Farey simply refers to "Grit"

**Impacts** Site (a) is within c50m of a house entrance.

**Quarry Name** Sutton Lane, Sutton Scarsdale, Bolsover

**Grid Ref** SK 436 694

**Database Ref** Q 39

**Sample Ref** SC(N)

**Access** Directly off a straight, open, country lane.

**Description** Former sandstone quarries c0.25 mile long running north - south on the east side of Sutton Lane. Now being filled in with builders rubble. Adjacent wall running full length of the quarry is almost entirely of regular, apparently good quality flaggy material. One of the two samples found in remnants of a section of the wall opened up to widen access, has a peg hole for hanging as a slate. This site appears to be just inside the grounds of Sutton Scarsdale Hall. This is almost certainly the source of the slates used in Sutton Scarsdale Village. (Area to the north, including use in buildings needs checking. However about 0.5 miles to the north is the very large Arkwright Town which has removed most of the near surface geology including the Adelphi site possibly referred to by Farey - see Calow site record).

Shown as quarries on the post war 6" Geol Map.

Some dumping on the west side of the road but it is not clear if this is fly tipping around the ruins of a cottage or filling of some former workings. There is no map evidence of former operations on the west side of the road.

(Application to extend filling current, 3/95, by Mr Brocksopp of Hall Farm.)

General comment - deserves further investigation - if additional extensions can be identified this could be an excellent source of good material.

Farey refers to Sutton in Scarsdale west (Wood-Nook Lane). Woodnook Farm is c2km to the north-west of Sutton Scarsdale along Rock Road but there are no obvious outcrops now.

**Geology** - outcrop not seen. Just to the north the Geological map shows a dip of 28° to north-east. The sandstone lies a little below the High Hazels Coal (which has been opencasted along with the next coal [probably 1st or 2nd St John's Coal] below HH); the latter lies immediately on top of the sandstone. The base of the sandstone appears to run along the road - beyond this, lower in the sequence, is a mudstone underlain by another sandstone and below this, the Top Hard Coal.

Farey 11th Grit

**Impacts** The outcrop to the south is in a small wood and the village lies beyond that. Otherwise no apparent problems.

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**Quarry Name** Hucklecroft, Teversal, Notts

**Grid Ref** SK 483 625

**Database Ref** Q 40

**Sample Ref** Q 40

**Access** The quarry forms the edge of a minor road

**Description** Shown as Hucklecroft Quarry on 1st Edition 1" OS Map. Long - c50m - low cuttings on either side of the road - c2m high.

**Geology** Near the base of the Permian (Magnesian) Limestone. Regularly and thinly cross bedded limestones - laminae c2cm each.

**Impacts**

**Quarry Name** Gypsy Hill

**Grid Ref** SK 510 778

**Database Ref** Q 41

**Sample Ref** None

**Access** Directly off the minor road running northwards from the A619. Access is through the grounds of a house which stands partly within the old quarry.

**Description** About 1 ha in extent with faces about 15 ft high. Walls have been built up against the faces to prevent them from collapsing so there is little rock to be seen. Where there are exposures they show some thin splitting rock.

In the past there must have been a fairly extensive stone slate industry in the Whitwell area and several old quarries are shown on various maps. However many of these have now disappeared due to developments including housing, the aggregate industry and open cast coal mining.

Only two roofs of magnesian limestone were encountered - at Barlborough Hall and Whitwell Hall - although others probably exist. In view of the small demand for new slates that this entails there is only a need for intermittent quarrying. In this case Gypsy Hill might be a suitable source and therefore warrants further investigation.

**Geology** Permian. Magnesian limestone.

**Impacts** House within the quarry.

**Quarry Name** Hardwick Hall (b)

**Grid Ref** SK 462634

**Database Ref** Q 42

**Sample Ref**

**Access** Off a minor road through the Hardwick Hall estate

**Description** Large old quarry used as main source of sandstone for the two Hardwick Halls. Quite open - a few trees - probably working until the early part of this century.

**Geology** Sandstone just below Clowne Coal (a little above the High Hazels Coal). Mainly massive - rather conchoidal fracture - buff/ochre coloured sandstone. Very little flaggy material.

**Impacts** National Trust

**Quarry Name** Mickley Farm, Mickley, Holmesfield, Dronfield.

**Grid Ref** SK 327795

**Database Ref** Q 43 MF1/MF2

**Sample Ref**<sup>+</sup> Q 43  
†MF1 - Wall  
†MF2 - Tip

**Access** Good, surfaced road from public road

**Description** Walls alongside the road at Mickley Farm are very flaggy. Excavations for large new farm buildings. Local usage not evident.

**Geology** Farm excavations reveal flaggy sandstones and siltstones overlying the Mickley Thick Coal. May be too silty and friable - but this may possibly be the result of surface weathering.

**Impacts** Outside Moor & Heath map. None apparent

**Quarry Name** Brink Farm. Nr Walker Barn. Buxton Old Rd Macclesfield

**GridRef** SJ 953 737

**Database ID** Q 44

**Sample Ref** None

**Access** Haul road into the east quarry from the A537 Buxton to Macclesfield road. Access to the west quarry from Buxton Old Road just off the A537.

**Description** Two quarries working the same beds as Teggs Nose along the strike. The easterly quarry is large, about 2 ha, and appears to have been worked recently for aggregates. Quarry in the west could be partly filled - flat quarry floor. East quarry has some block standing.

**Geology** Appears to be an unnamed sandstone between the Chatsworth Grit and the Roaches Grit. Same rock and similar dip to Teggs Nose. Apparently turbidite facies in an anticlinal structure dipping steeply 20° to the NNW. Massive, flags and slate visible in nearby wall. Some of the thinner splitting rock is shale. Although the top of the sequence is thinly bedded in places it is shaley and almost coaly. Lack of evidence of suitable slaty material.

Farey's 4th grit

**Impacts** Outside the Peak Park and the Moor and Heath map. Not on the skyline and reasonably well hidden although clearly visible from the A537. No close buildings other than the farm at the west end and a house beyond that further west.

**Quarry Name** Cartledge Lane, Holmesfield

**Grid Ref** SK 325 768

**Database Ref** Q 45

**Sample Ref** HFC

**Access** Fairly narrow unsurfaced lane; passable by a small lorry etc, then through a conservation area and housing into village.

**Description** Noted in Farey (not under this name) and a slate quarry shown on the 1st edition 1" OS Map, however there is no clear trace of a quarry on the ground at that point. In the approximate position, south of the village are areas of shrubby land ie, Little and Great Brind Woods (with new plantation ) and ploughed and wooded areas which suggest possible mineral workings but this could be coal. The section of the lane running east - west has very good large flaggy material outcropping at sides below the hedges. Also there is stone slate in the walls and in a drainage trench running north - south along a field. Flaggy material ceases as the lane approaches the village. Excellent examples of stone slate roofs on extensive buildings in the Cartledge Hall and Cartledge Hall Farm complex at the top of the lane (possibly the best example in the eastern half of Derbyshire). Also some other buildings in Holmesfield.

Large sample shows "wavy " surface but not all are like this.

**Geology** Description of outcrops above. Sandstone between Mickley Thin Coal (above) and Greenmoor Rock also locally known as Brincliffe Edge Rock (Sheffield.), and just to the S Wingfield Flags. Here the Greenmoor Rock comprises a single thick member and a number of thinner leaves. One of these leaves may be the Grenoside Sandstone but is not labelled as such.

**Impacts** Access is through the village.

**Quarry Name** Whirlow and Whinfell Quarries, Whirlow Br, Sheffield

**Grid Ref** SK 309 826

**Database Ref** Q 46

**Sample Ref** Q46 WR

**Access** Directly from a suburban road.

**Description** Shown as a slate quarry on the 1st Edition 1" Map immediately to the west of the stream; these two quarries are immediately to the east of the stream:

(a) Whinfell quarry - now an urban park with giant redwoods etc, owned by Sheffield City Council (Donated by Jas Niell Holdings, tool manufacturers, in 1968 after having been Col. Niell's house for 31 years; possibly could have supplied grindstones - a number of grindstones have been used in park paths.) Clearly the area has not been operated for about 100yrs. Face 7-10 m in places.

(b) Whirlow quarry. At the entrance to the urban park adjacent to Whinfell quarry. 12m high face - 20m across. Very good exposure.

Possibly more quarries in the remainder of the park (see ref. to slate quarry). Sample taken from the area between the two quarries.

A number of stones slate roofs on adjacent houses and across the road.

**Geology** Both quarries are in the Rough Rock.

(a) Flaggy bedded sandstones in blocks of up c0.75 m.

(b) Flaggy nature not so apparent but again blocks of 0.75m separated by shales. Dips of c10° - 15° to the southeast.

Helpful in demonstrating the continuity of the flaggy nature of the Rough Rock over large areas. Rough Rock in Sheffield area is c65 m thick

**Impacts** Public park and housing.

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**Description** Shown as a slate quarry on the 1st Edition 1" Map immediately to the west of the stream; these two quarries are immediately to the east of the stream:

(a) Whinfell quarry - now an urban park with giant redwoods etc, owned by Sheffield City Council (Donated by Jas Niell Holdings, tool manufacturers, in 1968 after having been Col. Niell's house for 31 years; possibly could have supplied grindstones - a number of grindstones have been used in park paths.) Clearly the area has not been operated for about 100yrs. Face 7-10 m in places.

(b) Whirlow quarry. At the entrance to the urban park adjacent to Whinfell quarry. 12m high face - 20m across. Very good exposure.

Possibly more quarries in the remainder of the park (see ref. to slate quarry). Sample taken from the area between the two quarries.

A number of stones slate roofs on adjacent houses and across the road.

**Geology** Both quarries are in the Rough Rock.

(a) Flaggy bedded sandstones in blocks of up c0.75 m.

(b) Flaggy nature not so apparent but again blocks of 0.75m separated by shales. Dips of c10° - 15° to the southeast.

Helpful in demonstrating the continuity of the flaggy nature of the Rough Rock over large areas. Rough Rock in Sheffield area is c65 m thick

**Impacts** Public park and housing.

**Quarry Name** Peakley Hill, Cowley, Homesfield, Dronfield

**Grid Ref** (a) SK 334766  
(b) SK 335763

**Database Ref** Q 47

**Sample Ref** PH

**Access** Adjacent to minor roads

**Description** (a) Small quarry in flaggy/blocky iron stained sandstone. Not very convincing - too sandy.

(b) Two quarries north and south of the road. Large flaggy sheets at top, most of the sequence in the south is more massive. Section about 12-15m

**Geology** (a) Base of Silkstone Rock

(b) Middle of Silkstone Rock

**Impacts** Small steep minor roads and small villages.

No record Q48

**Quarry Name** Brockholes Woodhead Pass

**GridRef** SK 074 999

**Database ID** Q49

**Sample Ref** Q49

**Access** Good farm track up from main road.

**Description** Large quarry at 340 to 360 m elevation. No sign of slaty rock. Mainly massive but some flaggy. Exposure 12 - 20m high. Exposure shows five sections vertically 2nd lift is flaggy so quarry is from bottom to top - massive, flag, massive, massive, flag mixed with massive.

Tipping into quarry and old grizzly bars indicating aggregate production.

**Geology** Kinderscout Grit - middle leaf.

**Impacts** Outside the Moor & Heath map. Remote and although it is on the skyline it cannot be easily seen even from close up. The tips are obvious even from the road but well weathered down so that they look quite natural.

No record Q50

**Quarry Name** Holme Moss. South of transmitter

**GridRef** SE 091 037

**Database ID** Q51

**Sample Ref** None

**Access** None except by foot from the A6024

**Description** Very small quarry with some flaggy rock.

**Geology** Huddersfield White Rock.

**Impacts** Within the Moor & Heath map.

**Quarry Name** Eyam

**GridRef** SK 223 770

**Database ID** Q 52

**Sample Ref** Q 52

See also Bretton Q 175

**Access** Alongside a narrow twisting road from Eyam church to Eyam Edge

**Description** Marked on the 1:25,000 map as a disused mine but there is no sign of any underground workings. A small disused quarry with fissile material. Potential to work along the scarp in either direction.

**Geology** Shale Grit

**Impacts** Outside the Moor & Heath map. Very small and hidden within woods. No impact

**Quarry Name** Harden Clough, Harden, Holmfirth Includes Low Edge quarry\*

**Grid Ref** \*SE 149 041

**Database Ref** Q53

**Sample Ref** Q53

**Access** Direct access from good minor road.

**Description** Also known as Magnum Bonum Quarries (Geol Memoir describes them as famous and notes that quarries in this area sold flags as far away as Manchester). Very large quarry area c1.5 x 0.25 km. at the 390m contour both north and south of the clough. generally the workings are a series of trenches into the +/- level ground. (Dip is very slightly south-west.) As the trench is advanced a certain amount of selection of presumably good quality rock has taken place with the result that on plan they are quite tortuous. Exposures are generally about 5m deep with exceptionally 10m. Almost certainly the main source for a wide area. Seems to be little tipped material unless it is back tipped into previous workings and now lost to view. What is visible is flaggy but also blocky and shaley some of tipped material appears to be good quality

It is possible that the bulk of the workable material has been removed. Glossop Geol Memoir (1930s) "now almost wrought out" and dormant in 1920's and 30's. Overburden probably limited operations to the NE; the edge of the outcrop bounds the N & S and the fault marks the west. Further south beyond the Harden reservoir there are some small workings right round to Little Shepherds Castle farm. These all contain slaty rock but some are probably only exploratory. There are further quarries on the opposite side of the road.

**Geology** According to Geol. Map = Rough Rock and in extreme west, ie divided from the rest of the area by a large fault, Rough Rock Flags, apparently in area beyond workings. However the Geol. Memoir infers that whole is, as one would expect, in the Rough Rock Flags. About half way through the sequence here, is one of the few outcrops of the Rough Rock Coal which was worked in conjunction with the RR stone slates. This in part explains the extent of the operations here. Some of the flags have worm casts giving the surface a distinctive appearance (cf Liscannor / Doolin flags of Co Clare, Ireland).

Holmfirth/Glossop Memoir. (p73.summarised) - "striking feature is that in many localities flags are vertical or contorted in the quarries on hilltop but underlying flags on both sides of stream dip normally even in line with the strike of the upturned beds - possible the upturning is the result of slumping movements such as deltaic slip soon after deposition. Current bedding also present. (Additional historical information may be available from Trevor Bray Photographer 16-22 Dunford RD, Holmfirth HD7 1DP Tel 01484 683213)

**Impacts** Within Moor & Heath map. Scale of workings means that there should be little additional impact. Public footpaths, bridleways and shooting. Low Edge quarry is dormant planning ref 449.

**Quarry Name** Charlesworth See also Slack Edge

**GridRef** SK 008 927

**Database ID** Q54

**Sample ref** None

**Access.** Through Charlesworth village up a narrow winding lane and houses within about 300 m of quarry.

**Description** Small quarry in the Rough Rock. 100 m wide. Slate and flags in the top c2 m. Dip is east to west. Topography rises steeply behind the quarry but development might be possible to the west to follow any fissile rock. Possible access above the Chapel on Monks Road. Must be water and power near by.

**Geology.** Rough rock.

**Impacts.** Outside the Moor & Heath map. Outside the Peak Park. Visual impact slight. Quarry would be visible from low down to the north-west. Houses close by.

**Quarry Name** Tyas, Townhead, Dunford Bridge

**Grid Ref** SE 170 031

**Database Ref** Q 55

**Sample Ref** D Br

**Access** Adjacent to a minor road.

**Description** A small roadside quarry c1 ha. Waste material tipped into the lower section. Faces c3-4m. Probable source for roofs in Carlecotes and Townhead.

Potentially the workings could be extended to the north without much difficulty.

**Geology.** About the middle of the Rough Rock Flags sequence. Curved rather thick flags, false bedded sandstones on top, more massive material below.

**Impacts** Visible from the A628 to the north and Thurlstone Moors

**Quarry Name** South East of Duttons Quarry

**GridRef** SK 339 624

**Database ID** Q56

**Sample Ref** None

**Access** Foot track through wood.

**Description** A small quarry in a conifer plantation now completely overgrown and no sign of any slaty rock.

**Geology** Ashover Grit

**Impacts** Very well hidden within the forest.

**Quarry Name** Houndkirk Quarry, Lady Canning's Plantation, Ringinglow

**Grid Ref** SK2870 8295

**Database Ref** Q 57

**Sample Ref** Q57 HK

**Access** Along a wide rough track (former road).

**Description** Small quarry worked until very recently (possibly still operated on a small scale) for fireplace stone. Now used (or licensed) by Sheffield City Council as a waste tip - mainly builders rubble. Original depth not known but now c3-4m. Fresh faces may have been worked simply to provide cover for tipped material and to maintain access to site.

Worth further investigation

**Geology** Middle of Rivelin Grit (Chatsworth Grit) - part of a broad outcrop. Bright orange/ochre colour on fresh faces - slabby with flaggy material below on two faces but the flaggy material appears to break up fairly readily leaving very small "slates" and thin laminae.

**Impacts** Surrounded on 3 sides by mature woodland access poses no interference to others. Views - not prominent.

Active quarry planning ref 4187

Outside the Moor & Heath map.

**Quarry Name** Glossop Low Quarry, Glossop

**Grid Ref** SK 058965

**Database Ref** Q58

**Sample Ref** Q58 GIL

**Access** Located at c1300 ft on moors 3km NE of Glossop; c1.75km along deep rutted track from surfaced road (Charles Lane).

**Description** Workings are among the most extensive in Study Area - c1km long; c5-10m deep; operations worked eastwards into almost horizontal beds at the 380 - 390 m contour, ie into increasing overburden, including at north end thick peat which has begun to flow into the old workings - hence long N/S face along strike. Geological Map suggests peat fringes entire face. Large scale tips c10m high; a number of operating and sorting areas, remains of stone sheds etc. Extensive dumps of apparently very good quality material.

Area was (and probably still is) on Norfolk Estate. Probably the main source of stone slates for Glossop (main period of expansion: - 1800 - 1820) which was almost entirely owned by Norfolk. New road built to quarry in 1798 to improve access, but by 1828 was jammed with traffic!

NB. Farey appears to list Glossop Low and Charles Lane as 2 separate quarries. Although there is a quarry at the bottom of Charles Lane the beds are fairly massive. In the light of the prominence of Glossop Low, it is more likely that Charles Lane was simply given as part of the address.

Farey: Glossop Low. Quantity sufficient to do a rood of roof (or 44yds) at 52/-; in the town the same slates sell for 64/-.

NB Site not listed in Hunt 1858 and almost no change apparent from 1898 Edition of OS onwards; reputed to have closed in 1900 (?) or 1920 (H&G Memoir).

**Geology** Base of second leaf of Kinderscout Grit (possibly the same beds are worked c1km to S at Shire Hill Quarry. Slight SW dip ie away from face. Fault runs NW/SE across SW corner of workings.

Farey - Glossop Low and Charles Lane - 1st Grit

**Impacts** The scale of this quarry gives it an obvious historical importance.

Glossop Low is visually prominent but, given careful siting small scale operations could be hidden. Within the Moor & Heath map.

**Quarry Name** Whitfield, Glossop

**Grid Ref** SK 039 933

**Database Ref** Q 59

**Sample Ref** Q59 WhG

**Access** A number of hard tracks from the adjacent road

**Description** Three adjacent small quarries and another nearby at SK 037 931. First three are c3 - 7 m deep and overgrown and part filled in. Bounding walls are of very flaggy material. The fourth has a higher face - modified recently to accommodate new housing.

This area was one of very few in the Glossop area which was outside the Norfolk Estate - this may have been a factor in opening up the site.

Referred to by Farey -Whitfield in Glossop

Whitfield is first mentioned in the Domesday Book - possibly a reference to the colour of the stone in the field.

**Geology** Kinderscout Grit in this area comprises two leaves; the beds here appear to be in the middle of the lower leaf. Faults divide the single quarry from the other three. The 6" Geological map shows an old quarry near Fieldhead (one of three quarries) in current-bedded sandstone - 28ft in shale partings - coarse massive current bedded sandstone 20-25 ft in the next quarry all between Whitfield House and Fieldhead.

The 1887 Geol Memoir states p47 south-east of Whitfield - closely grained sandstone "yielding a beautiful building stone in parts" - "very micaceous splitting into excellent flags".

Farey: 1st Grit

**Impacts** Outside the National Park and the Moor & Heath map. Overlooked by housing and riding stables which also use the same access. Main routes out are virtually all through residential areas.

**Quarry Name** Hartcliff Hill Penistone  
**GridRef** SE 221 018 **Database ID** Q60  
**Sample Ref** Q60

**Access** Foot access only

**Description** About 10 hectares of slightly dipping ground on the crest and north-west point of a ridge. A series of pits with no exposure of the rock. Now all overgrown with heather. The walls on the south side contain thin rock.

**Geology** Grenoside Rock.

**Impacts** Recreation area. Very visible on skyline. No obvious conservation factors.

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**Quarry Name** Crich, Cromford.

**Grid Ref** SK 348 532

**Database Ref** Q 61

**Sample Ref** None

**Access** All close to roads

**Description** A series of quarries running northwards along The Tors from the map reference and through Crich. Those visited did not show any fissile rock

**Geology**

**Impacts** Some of the quarries are within the village others are secluded and reasonably well hidden.

**Quarry Name** Lyme Park, Disley, Cheshire

**Grid Ref** a) SJ 953 815  
b) SJ 957 821  
c) SJ 962 814  
d) SJ 974 822

**Database Ref** Q 62

**Sample Ref** None

**Access** Easy access from the drives within the park.

**Description.** Four quarries are shown on the map of the estate..

a) SJ 953 815. Close to the drive from Westpark Gate. Several small depressions over an area of about 500 x 500 metres. Fine grained gray fissile material with ripple bedded surface (Freebirch Type) in the waste and in exposed rock near the stream.

b) SJ 957 821. The rock is friable.

c) SJ 962 814. Above a small valley south of Knightslow Wood. Several excavations showing fine grained fissile rock overlying flaggy and massive. Pale pink darkening on exposure.

d) SJ 974 822. This quarry is believed to be the source of the masonry stone used for Lyme Hall

### **Geology**

**Impacts** A National Trust park and hall. The two quarries at SJ963814 and SJ974822 are within the Moor & Heath map. Although this is a protected area there is an argument for using the quarries to renovate buildings within the park.

a) is visible from within the park. c) is remote within the park and not easily seen.

No record Q63

No record Q64

**Quarry Name** Spout House Hill Wharnciffside, Sheffield.

**GridRef** SK 275 947

**Database ID** Q 65

**Sample Ref** SHH

**Access** Good access over farm track to Spout House Hill Farm and Hob Lane House then via Brightholmlee Road.

**Description** Extensive and numerous operations spread over about 30 ha of farmland. Some workings are 10 -15 m deep and it was possibly also mined. Shafts are marked on the 2 1/2" map. Main concentration is around the edge of the plateau feature at SK 277 948.

Worked for roofing and bakesstones. This may have been the main source for Bolsterstone 2 km away across the valley which appears to have no nearer source in spite of standing on the Rough Rock. Farey refers (in the text) to bakesstones from here.

Shows some potential but it depends on whether it has been worked out. This will need detailed survey. The most promising area could be to the northeast towards Spout House Hill Farm.

**Geology** Horizontal outcrop of the Rough Rock The main workings appear to be in the lower half of the sequence. A series of workings continues along much of the sinuous RR outcrop between here and Oughtibridge 3 km to the east.

The beds show considerable variation: at the north edge the top is commonly flaggy with massive rock below but with incipient thin partings following cross bedding. Some beds near the base are iron rich and friable.

**Impacts** The outcrops at the north edge are visible from a broad area of the Elsdon valley to the north. Operations in the center of the outcrop and along the southern edge would be less obvious. It might be possible to mine.

At SK 2748 9490 there is a Regionally Important Geological Site (RIGS). Within the Moor & Heath map.

**Quarry Name** White Edge Moor

**GridRef** SK 262786

**Database ID** Q 66

**Sample Ref** Q 66

**Access** Along a good cart track through National Trust property

**Description** The site visited is on the east side of the B6054 north of Nether Padley. It is possible that there are further workings to the west of the road on the steep escarpment. The workings are a series of shallow excavations with fissile rock very close to the surface. Whole area worked is about 1 hectare. Possibly further workings on the west of the road on the steep slope.

Extensive workings and tips up to 7-9m deep. Generally good flaggy material on tips. Some of material is finely laminated, but some of the coarse grained, even some of the larger more massive coarse blocks, show incipient feint lamination along false bedding planes. It is possible that most of the outcrop is worked out but might possibly be extendible eastwards but probably below increasing overburden.

Recent reworking of tips on a hand scale.

Farey refers to "Nether Padley NE, (S of the Robin Hood)" - presumably Robin Hood's Well.

**Geology** Rough Rock. Total outcrop relatively small and in part bounded by faults . Dips to SE into plateau to the east under gradually increasing overburden. Few clear outcrops. False bedded sandstones.

Farey : 2nd Grit

**Impacts** On a National Trust property (Longshaw Estate) in or alongside Longshaw country park. Not visible form the west because of tree cover but visible form other directions. Might be acceptable to operate purely for the properties in the immediate vicinity.

Outside Moor & Heath map.

**Quarry Name** Fulwood Booth, Lodge Moor, Sheffield

**Grid Ref** SK275 853

**Database Ref** Q67

**Sample Ref** Q67 RHI

**Access** Directly on level off good minor road

**Description** Extensive workings (c 6-7 Ha) mainly dumps typically 2.5-4m high - occasional faces. Small existing operational workings with planning permission as far as the west edge of the site - by Pip Fletcher and son or son in law\*. Mr Fletcher in his 70's only works occasionally - shows schoolgroups over the site.

According to local farmer quite "large " slates can be produced. Most of intermittent output is for fireplace stone, internal decorative material and rockery stone etc. The small working area c 0.5Ha shows large open quarry floor, very regular bedding planes and small flooded section.

Potential for extension to the west and the south-east along the strike or towards the adjacent workings at Fulwood Head Q 166.

\*Father: Pip Fletcher, West Carr Cottages, David Lane, Fulwood ,Sheffield  
Tel: Sheff. 305852. Passed to son in law S Nicholson.

Not mentioned by Farey despite the overall size and presumed antiquity of former workings; he does however mention adjacent operations at Fullwood Head and Brown Edge (qv).

**Geology** Rough Rock - exploits most of the full thickness and width of the RR outcrop. Dip c 30° to SSW.

**Impacts** Open landscape - can be seen from Lodge Moor, Redmires and Rivelin but small workings could easily be hidden by careful grading of tips or use of existing topography.

Active quarry planning ref 3512.

Site of a rare clubmoss *Lycopodium clavatum*. PPJPB ref 2785/1.  
Outside Moor & Heath map.

**Quarry Name** Five Clouds. Roaches.

**GridRef** SK 002625  
SK 012617

**Database ID** Q68

**Sample Ref** None

See also Hen Clouds Q 76

**Access** Track to Five Clouds from road.

**Description** Five Clouds. Series of small excavations running SE to NW. Mainly massive but some thinner material at the top. Unlikely to be a roofing source.

No thin material in walls. Roaches House has a tile roof. Windygates Hall Farm has a stone roof. Near village of Upper Hulme there is flag material in a cutting. There are stone roofs in the village but mainly clay tiles.

Photos of Old Rock Inn and Chaple.

**Geology** Five Clouds Sandstone (equivalent to Corbar Grit) - two leaves, most working in the upper leaf - almost all massive coarse grained sstn. lacking obvious bedding. However small section say 1m of flaggy (but still coarse) material. about 2/3rds up one of the faces Dip 220 to NE

**Impacts** Regionally Important Geological Site RIGS and an SSSI. This is a park and recreation area. Quarry is along a low but marked ridge overshadowed by The Roaches behind. Open views to Tittesworth Reservoir to the south. One of the most popular areas of the PDNP - very heavily used by visitors especially important to climbers - parking restrictions etc.

**Quarry Name** Hollinsclough Rake, Longnor

**Grid Ref** SK 059 668

**Database Ref** Q 69

**Sample Ref** HCL

**Access** Not applicable.

**Description** This entry is not a quarry. The sample was taken from a wall

**Geology** The position is on the Five Clouds Sandstone but it cannot be inferred that the source is local. Possible other local sources are the quarries on Axe Edge Moor, Reeve Edge, Q18, etc or Daisy Knowl Q99.

**Impacts** Not applicable

**Quarry Name** Slack Edge

**GridRef** SK 016 926

**Database ID** Q70

**Sample Ref** None

See also Charlesworth Q 54

**Access** Footpaths from Monk's Road and High Lane. Possible access by vehicle from Monk's Rd.

**Description** Several small developments quarried south-easterly into the rising ground but overgrown so rock cannot be seen. Similar development to Charlesworth (Q54)

**Geology** Rough rock. The three quarries in this area (Cown, Charlesworth and Slack Edge) are at 400m, 260m & 320m elevation.

**Impacts.** Reasonably remote from houses although close to Charlesworth. Visible from the north-west across the valley but it is not on the skyline. Footpath across the area.

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**Quarry Name** Moorfield (west of). Glossop

**GridRef** SE 042 927

**Database ID** Q 71

**Sample Ref** Q 71 MFD

**Access** Good track in from the road to the reservoir.

**Description** Three small quarries with very coarse pebbly rock and nothing flaggy or slatey. Nothing thin in the walls. Below there is a finer grained but massive rock. Slate on roofs is much finer grained.

**Geology**

**Impacts** Outside the Moor & Heath map. Visible from surrounding area.

**Quarry Name** Isle of Skye. Meltham

**GridRef** SE 089 079

**Database ID** Q 72

**Sample Ref** IoS

**Access** Directly from A635 by good track.

**Description** An operating aggregates quarry (planning ref 1743) with mainly mobile plant. Massive and thick bedded medium to coarse sandstone. Although there is some flaggy material it is generally too coarse grained and the crossbedding sets are too thick for roofing.

Little potential as a slate quarry on the basis of the existing exposures.

**Geology** Huddersfield White Rock. Large crossbedded sets. The more massive rock commonly has incipient crossbedding.

**Impacts** The quarry is very well hidden with direct access to a main road.

Within the Moor & Heath map.

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**Quarry Name** Meltham Cop Near Meltham.

**GridRef** SE 094 120

**Database ID** Q 73

**Sample Ref** None

**Access** Alongside a minor road off B6107

**Description** Nothing to be seen except some completely over grown workings

**Geology** Huddersfield White Rock?

**Impacts** Outside the Moor & Heath map.

No record Q74

**Quarry Name** Charles Lane Glossop

**GridRef** SE 045 950

**Database ID** Q 75

**Sample Ref** Q 75

**Access** Old narrow track in from Charles Lane.

**Description** Series of small quarries running westwards and up the topography. Mainly massive and very coarse grained but near the surface some flagging. Grain size varies substantially over just a few inches. Upper quarries are overgrown but one exposure shows interleaved coarse and fine grain.

**Geology** Kinderscout Grit.

**Impacts** Just outside the Moor & Heath map. Quite close to houses and it is a recreational area with a footpath through and alongside the quarries.

**Quarry Name** Hen Clouds. Roaches, Leekfrith.

**GridRef** SK 012617

**Database ID** Q76

**Sample Ref** None

**Access** Foot access only.

**Description** In a plantation. Small 30m wide. Dipping 45 to W.  
Little sign of thin bedding. What there is is very crumbly.

**Geology** Roaches rock

**Impacts** Very secluded. Regionally Important Geological Site RIGS and an SSSI.

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**Database ID** Q76

**Sample Ref** None

**Access** Foot access only.

**Description** In a plantation. Small 30m wide. Dipping 45 to W.  
Little sign of thin bedding. What there is is very crumbly.

**Geology** Roaches rock

**Impacts** Very secluded. Regionally Important Geological Site RIGS and an SSSI.

**Quarry Name** Quarries near Rock Farm on Monk's Road

**GridRef** SK 024 913

**Database ID** Q77

**Sample Ref** None

**Access**

**Description** No quarries to be seen - just depressions in ground.

**Geology** Unknown

**Impacts** Outside Moor & Heath map.

**Quarry Name** Bond's Quarry

**GridRef** SK 275 661

**Database ID** Q 78

**Sample Ref** None

See also Wragg's Q 79

**Access** From Chesterfield Lane

**Description** This quarry has only massive rock. There are several similar q's in the vicinity all massive. 50m x 40m. Trial hole nearby. Photo 5

**Geology** Chatsworth Grit

**Impacts** Within the Moor & Heath map.

**Quarry Name** Wragg Quarry

**GridRef** SK 283 664

**Database ID** Q 79

**Sample Ref** None

See also Bond's Q 78

**Access** From Chesterfield Lane

**Description** Long curving cut in horizontal ground towards north. Recent tipping including tarmac. Water too deep to see bottom. No slate or flags.

Two other small holes to the west.

**Geology** Chatsworth Grit

**Impacts** Active quarry planning ref 7715. Within the Moor & Heath map.

**Quarry Name** Woodbrook Quarry.

**GridRef** SK 282 659

**Database ID** Q 80

**Sample Ref** None

See also Wragg's Q 78

**Access** Track in from minor road

**Description** Massive only.

**Geology** Chatsworth Grit

**Impacts** Outside the Peak Park. Remote and not visible from surrounding area.

**Quarry Name** Roach Wood.

**GridRef** SK 314 663

**Database ID** Q81

**Sample Ref** None

**Access** Alongside the road

**Description** Land fill site. The quarry on the opposite side of the road is no longer visible - filled in and grassed over.

**Geology** Chatsworth Grit.

**Impacts**

**Quarry Name** Ashover Quarry, Rushley Lodge Farm Near Matlock.

**GridRef** SK 310 645

**Database ID** Q82

**Sample Ref** None

**Access** Alongside a minor road.

**Description** Owned by Realstone but not operating and heavily overgrown with mature trees. Many large holes excavated with "walls" between. Reportedly a millstone quarry. No sign of the rock - buried by leaf mold and conifers.

Water and power across the road.

**Geology** Chatsworth Grit

**Impacts.** Remote and secluded. Only a farm near by.

**Quarry Name** Highlikely Quarry

**GridRef** SK 316 641

**Database ID** Q83

**Sample Ref** None

**Description**

**Access** Track from lane

**Description** Owner says there is no roofing in the quarry. Worked for walling. There are two quarries's on a north-west to south-east line

**Geology** Chatsworth Grit

**Impacts**

**Quarry Name** Billinge Quarry

**GridRef** SJ 955777

**Database ID** Q84

**Sample Ref** None

Also opposite is Brown House which may be the location of Brown Brow quarry.

**Access** Tarmac road in from Blaze Hill

**Description** Large rambling quarry. Mainly massive plus some flag and slate but generally the latter is curved with sandstone lenses. Near the entrance is new or well maintained building +/- below ground and another at a higher level.

**Geology** Rough Rock

**Impacts** No impacts but is in use for ? storage. Dormant / lapsed quarry planning ref 6567.

Outside Moor & Heath map.

**Quarry Name** Wimberry Moss in Rainow.

**GridRef** SJ 965 765

**Database ID** Q85

**Sample Ref** None

**Access** Good access from Smith Lane.

**Description** Rainow. The quarry on the south side of the road is just a scrape in the ground. Nothing to be seen.

Wimberry Moss is being worked - quite large. Dip is c40 WNW. Some thin beds - rock is pinky red.

Presumably has all the services it requires.

**Geology** Holcombe Brook Grit

**Impacts** Almost no impact - small, isolated, hidden from almost every vantage point.

Active quarry planning ref 3990

Outside Moor & Heath map.

**Quarry Name** Shirehill Glossop.

**GridRef** SK 054945

**Database ID** Q86

**Sample Ref** None

**Access** Good haul road in from the main road - Snake Pass.

**Description** Never worked for roofing. Currently produces walling blocks for sawing by others and aggregates. Some thin stuff visible but described as crumbly shale. Previously a millstone producer. Historically a large producer of jute crushing rollers

**Geology** Kinderscout Grit

**Impacts** Active quarry planning ref 9104. Visible from the opposite side of the valley.

**Quarry Name** Sitch quarry at Weathercotes near Birch Vale

**GridRef** SK 021 874

**Database ID** Q87

**Sample Ref** None

See also Rowarth Q 13

**Access** Situated close to the road with a vehicle track in.

**Description** Dormant quarry - planning reference 2395

Dip c25 west. Runs with topography. Small quarry with a small amount of thin bedded material.

Possibly the Thornsett of Farey (M K Stanley gives 0170 8705 Birch Vale on the opposite side of the valley) First edition of the OS Stockport Map shows Thornsett as a district between Rowarth and Birch Vale as well as the village of the same name so Farey could be referring to any source from Weathercotes to Rowarth.

**Geology** Woodhead Hill Rock.

**Impacts** Fairley hidden and remote. Outside Moor & Heath map.

**Quarry Name** Bolehill Hathersage - Includes Millstone Edge quarry\* .

**GridRef** SK 249 795  
SK 248 805

**Database ID** Q 88

**Sample Ref** None

**Access** Cart track in from road

**Description** Long series of quarries below the road. Exclusivly massive - this was a grindstone quarry and there are many still lying around. Absolutely no sign of any slate in the quarry below the road.

**Geology** Chatsworth grit.

**Impacts** Well hidden and remote.

SK 248805 is dormant/lapsed planning ref 6861 for Millstone Edge quarry.

At SK 248804 and SK 248808 (Millstone Edge) are Regionally Important Geological Site RIGS. Just outside the Moor & Heath map but within National Trust land.

**Quarry Name** Lamb Inn on A624 near Chinley Churn

<b><u>GridRef</u></b>	SK052836	<b><u>Database ID</u></b>	Q89
	SK051843		
	SK049852	<b><u>Sample Ref</u></b>	None

**Access** All easily accessible from road.

**Description** Three quarries on A624 opposite Chinley Churn and near the Lamb Inn.

SK 052836 Very shallow, small working - coarse flaggy SS but really nothing to be seen.

SK051843 Quite extensive quarry but completely overgrown and forested. Impossible to describe in detail but some flaggy material lying around.

SK049852 Very small working. Infilled? Nothing to see.

**Geology** Near the top of the upper leaf of the Kinderscout Grit.

Occasional shale bands and some faulting a little to the south. Noted on 6" Geol Map SK08 SE as having flaggy material. Map also notes beds are particularly flaggy around Andrews Farm at SK 055 844 just across the ridge to the east.

**Impacts** None except that the north & south quarries are near farms and the middle one is by an inn. Dormant / lapsed quarry - planning ref 2386.

Outsidethe Moor & Heath map.

**Quarry Name** Hayfield

**GridRef** SK 030 869

**Database ID** Q90

**Sample Ref** None

**Description**

**Access** Road in from A6015.

**Description** Large quarry producing sawn products, walling and crazy paving. "Used to produce roofing but not operating at that level now." Sells raw block to Scotland and Germany.

**Geology** Chatsworth Grit

**Impacts** Outside Moor & Heath map.

**Quarry Name** Birch Vale. Two quarries.

**GridRef** SK 023 866  
SK 022 865

**Database ID** Q91

**Sample Ref** None

**Access** A narrow lane to both quarries from A6015.

**Description** Both quarries are large and active producing aggregates. Owner says there are no slate beds.

**Geology** Woodhead Hill Rock.

**Impacts** Outside the Moor & Heath map.

**Quarry Name** Hungerhill area near Slatepit Dale

**GridRef** SK 325 674

**Database ID** Q92

**Sample Ref** None

**Access** Track in from the main road B5057

**Description** Quarry not visited. Described as never having been a source of roofing.

**Geology** Chatsworth Grit.

**Impacts** None apparent.

**Quarry Name** Matlock Moor , Matlock.

**GridRef** SK 305 617

**Database ID** Q93

**Sample Ref** None

**Access** Via farm track from A 632 to Sandy Lanes Farm.

**Description** Heavily overgrown. Nothing to be seen. All tips. Quarry is reported to be owned by the Forestry Commission.

**Geology** Chatsworth Grit.

**Impacts** No environmental impact, although the quarry is visible from the road. Farm approximately 100m away. Track is also used by the Forestry Commission.

**Quarry Name** Lumshill Quarry, Matlock.

**GridRef** SK 316 613

**Database ID** Q 94

**Sample Ref** Q 94

**Access** Part made up road from A632. Good access to quarry face.

**Description** Disused quarry adjacent to Bentleybrook 1 (working).  
Height of working face approx 15m. Fissile beds approx 1.5 m overgrown

**Geology** Chatsworth Grit.

**Impacts** None. Quarry is hidden from view. Working farm approximately 200m away.

**Quarry Name** Lumsdale Quarry, Matlock

**GridRef** SK 318 609

**Database ID** Q95

**Sample Ref** Q 95

**Access** Part made-up road from A 632 to working quarry Bentleybrook 1. New access required to Lumsdale - approximately 50m

**Description** Part overgrown disused quarry in woodland. Three phase electricity nearby. Face approx 40m long. Fissile beds approximately 2m high at top of face.

**Geology** Chatsworth Grit.

**Impacts** Within woodland. Numerous paths crossing quarry.

**Quarry Name** Bentleybrook 1, 2 & 3, Matlock.

**GridRef** SK 314 611

**Database ID** Q96

**Sample Ref** None

**Access** Made-up road from A 632.

**Description** Q1 Working quarry (part time) Three phase electricity at top of hill, but not supplied to site? Working face approximately 300m long and 10m high. No fissile beds visible.  
Q2 Disused quarry. working face c10m tall by 15m wide. 1.5m thick fissile beds at top.  
Q3 Disused. Working face 12m tall by 30m wide. 1.5m thick fissile beds at top.

**Geology** Chatsworth Grit.

**Impacts** No new impacts.

**Quarry Name** Breck. Two quarries near Pott Shrigley

**GridRef** SJ 937 795

**Database ID** Q97

**Sample Ref** None

### **Lower Quarry**

**Access** Steep foot access.

**Description** Heavily overgrown. Large quarry with high walls but no sign of any fissile material. Overlaid by a shale which has crumbled and formed large heaps at the foot of the walls.

Dip W - NW.

### **Upper Quarry**

**Access.** Road into the quarry which is now an industrial site.

**Description** Mainly massive but some flaggy and slaty material. No prospect for slates in the old quarry but the beds must continue outside.

**Geology** An un-named sandstone.

**Impacts** Lower Q is a nature reserve. Upper is an industrial site.

**Quarry Name** Flash Bottom

**GridRef** SK 019 662

**Database ID** Q98

**Sample Ref** None

**Access** 1 Series of very small excavations in the cliff alongside the road.  
2 At Flash Bottom farm.

**Description** 1 Almost no rock exposed and no thin material evident.  
2 Nothing to be seen.

Along the road up to Flash thin material is visible at the top of the exposures on the west side. Between Flash and the main road (A53) there may be workings on the skyline on west side.

In the grave yard there are gravestones back to 1746 showing no decay. The Wesleyan chapel 1810 is clay tile.

**Geology**

**Impacts** Outside the Moor & Heath map.

**Quarry Name** Flash Bottom

**GridRef** SK 019 662

**Database ID** Q98

**Sample Ref** None

**Access** 1 Series of very small excavations in the cliff alongside the road.  
2 At Flash Bottom farm.

**Description** 1 Almost no rock exposed and no thin material evident.  
2 Nothing to be seen.

Along the road up to Flash thin material is visible at the top of the exposures on the west side. Between Flash and the main road (A53) there may be workings on the skyline on west side.

In the grave yard there are gravestones back to 1746 showing no decay. The Wesleyan chapel 1810 is clay tile.

**Geology**

**Impacts** Outside the Moor & Heath map.

**Quarry Name** Daisy Knowl Mine Longnor

**GridRef** SK 082 653  
SK 082 652

**Database ID** Q 99

**Sample Ref** None

**Access** Adjacent to Daisy Knowl Farm.

**Description** SK 082 653 Short drift working up the dip in a 3.4 m bed of buff coloured massive fine grained sandstone. Reported to be a source of stone slates but this has been disputed and is not supported by the geological descriptions (Buxton BGS Memoir 1985).

SK 082 652 No remains of quarry. It appears to have been a small excavation in the junction of the two roads from the A53. All that remains are two depressions in a field.

**Geology** At the base of the Longnor sandstone with mudstone immediately below. Dip is 6° to the SSW. There are a number of similar outcrops in the Longnor sandstone in this area.

Farey refers to the workings being in the Shale grit.

**Impacts** None apparent. Outside the Moor & Heath map.

**Quarry Name** Cunner. Tansley near Matlock.

**GridRef** SK328590  
& to east

**Database ID** Q100

**Sample Ref** None

**Access** Alongside the road. Walk in anywhere

**Description** A few small excavations. No sign of any thin material. Has been worked up the topography. Nothing thin in the walls.

Small quarry by farm - some thin material at the top.

Further along the lane in a plantation - nothing thin. All these quarries have been working the strike but nothing to indicate a significant source of slates.

**Geology** Chatsworth grit. Dip is North.

**Impacts** May be a reserve - nest boxes & badgers.

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**Quarry Name** Old Engine Farm

**GridRef** SK 330 618

**Database ID** Q101

**Sample Ref** None

**Access** Track across field to plantation. Footpath.

**Description** On the opposite side of the road to the farm. A small surface working with mature trees. Little sign of thin rock but there is some in the walls.

**Geology** Chatsworth Grit.

**Impacts** Away from the road and farm buildings. Hidden by trees.

**Quarry Name** Dukes Quarry Whatstandwell

**GridRef** SK 333 546

**Database ID** Q103

**Sample Ref** None

**Description**

**Access** Large track into currently worked quarry from minor road.

**Description** Workings along the scarp slope above the Cromford canal. The current workings are in massive rock only and there is very little evidence of thinly bedded material except at one point north-west of the entrance in the oldest part. In the current quarry the overburden is thicker than usually seen - about 1m and is soil down to the rock.

Below the Dukes quarry there may have been workings in the past but it is now so overgrown with mature woodland it is impossible to tell. There are the remains of a small building. Some garage waste tipped and partially buried in here.

**Geology** Ashover Grit

**Impacts** Slight. Fairly remote and secluded.

**Quarry Name** Holybank quarry. Tintwistle N of Glossop

**GridRef** SK 026976

**Database ID** Q104

**Sample Ref**

**Access** Good track from road.

**Description** Large quarry. Thin material at top - massive below. Break of bedding 1/2 to 2/3 above base of quarry. 12 to 16 m tall exposure. Slate about 2m thick. Topography follows the dip - rising eastwards.

Unusually thin slates in the village.

**Geology** Kinderscout Grit Dip 30° west

**Impacts** Secluded but would be visible from across the valley. No buildings close by. Footpath to access land but no obvious nature conservation aspect.

**Quarry Name** Stonebrake quarries Tintwistle, Glossop

**GridRef** SK 028978

**Database ID** Q105

**Sample Ref** None

**Access** No access except across open land.

**Description** Area of about 2 hectares of small shallow workings scattered over the moorside. About 1m thickness of slatey rock with massive below. Not a well developed area looks like exploratory workings. No thin slate in the tips.

To the north east is Tintwistle Knarr quarry. Not visited but shows a track on the 2 1/2 inch map. Tintwistle Knarr SK 0450 9880 is a Regionally Important Geological Site (RIGS)

**Geology** Kinderscout Grit

**Impacts** Within Moor & Heath map.

On an exposed hillside visible from the opposite side of the Woodhead pass. No buildings close by. On access land but no obvious conservation factors.

**Quarry Name** Cockerhill Tintwistle Glossop

**GridRef** SK 024975

**Database ID** Q106

**Sample Ref** None

**Access** Good track in from road suitable for large vehicles.

**Description** Large quarry now used as a farm. 100m wide with thin rock at top and massive below.

Another quarry immediately behind the chapel (built 1820) in the village.

**Geology** Kinderscout Grit

**Impacts** Close to village. Outside the Moor & Heath map.

**Quarry Name** Stone Edge Plantation, Walton, Chesterfield

**Grid Ref** SK 340 673

**Database Ref** Q 107

**Sample Ref** None

See also Q 26 and Q 92

**Access** Directly off Darley Road near the A632.

**Description** Farey refers to Stanage north-west of Wingerworth but this more probably refers to the quarries in the Slate Pit Dale area to the east of this site. (See Q 26)

This quarry has been worked in faces up to about 20m high with some fissile rock.

**Geology** Crawshaw Sandstone.

**Impacts** Recreational area and a house built into the cliff on the edge of the quarry. The quarry is well hidden from the road.

**Quarry Name** Woodhead Pass. Quarries alongside the A628

**GridRef** SK 050956 to  
SK 084998

**Database ID** Q108

**Sample Ref** None

**Access** Alongside road

**Description** These all appear to be borrow pits for road / dam construction. No sign of any slaty rock.

**Geology** Kinderscout Grit lower

**Impacts** Brockholes Wood quarry SK 072996 is a nature reserve and is within the Dark peak SSSI. Outside Moor & Heath map.

**Plan**

**Quarry Name** Upperwood House Saddleworth Moor

**GridRef** SE 022 060

**Database ID** Q109

**Sample Ref** None

**Access** Track in from road - A635

**Description** Small quarry without any evidence of slatey rock

**Geology**

**Impacts** Within the Moor & Heath map. Close to and visible from the A635. Nearest building - one farm on the opposite side of the road. Low impact.

**Quarry Name** Farley Moor. Farley Hill Matlock

**GridRef** SK 297627

**Database ID** Q 110

**Sample Ref** None

**Access** Up a steep bank from a minor road. The former quarry road is now the access to a house.

**Description** Extensive heavily overgrown tips with a few quarry faces up to 15 m tall. The paths and tracks through the heather and rhododendron merge with the garden of the adjacent house.

Accounts from c 1900 indicate that this was an important source of building stone in the development of the hydros in Victorian Matlock.

No potential as a stone slate quarry on evidence of exposures.

**Geology** Lower half of the Chatsworth Grit. The higher beds are thick planar bedded. Below this are variously massive beds with crossbedding or in the west weathered out crossbedded sets. In the tips there are some large flags but they are too thick for roofing and have ripple bedded surfaces.

**Impacts** Proximity to house and garden although the quarry is well hidden. Not on Moor & Heath map.

**Quarry Name** Pule Hill Near Marsden

**GridRef** SD 035 101

**Database ID** Q 111

**Sample Ref** None

**Access** Good track up from road.

**Description** Small quarry with small amount of thin splitting rock at the top.

**Geology**

**Impacts** Remote from everything although visible from a minor road. No impact.

**Quarry Name** Marsden. SW of village.

**GridRef** SD 040 108

**Database ID** Q112

**Sample Ref** None

**Access** None

**Description** Series of small completely overgrown workings on the moor. No rock to be seen at all but there are the remains of a very substantial track running up into the area.

**Geology**

**Impacts** None

**Quarry Name** Hillhouse Head (& Windyridge) quarries Near Holmfirth

**GridRef** SE 129 055

**Database ID** Q113

**Sample Ref** None

**Access** Good tracks in from roads in the east and west.

**Description** Series of quarries running along the ridge from SE 131054 towards the north-east. Both quarries being worked for building stone but no roofing.

**Geology**

**Impacts** Surprisingly well hidden considering they are on a ridge. The tips can be seen from Holmfirth.

**Quarry Name** Windyridge (& HillhouseHead) Q's Near Holmfirth

**GridRef** SE 130 053

**Database ID** Q114

**Sample Ref** None

**Access** Good tracks in from roads in the east and west.

**Description** Series of quarries running along the ridge from SE 131 054 north-easterly. Both quarries being worked for building stone but no roofing.

**Geology**

**Impacts** Surprisingly well hidden considering they are on a ridge. The tips can be seen from Holmfirth.

**Quarry Name** Stanton Moor area.

**Grid Ref** SK 240 620 - SK 250 645

**Database Ref** Q 115

**Sample Ref** None

**Access** Each of the operating quarries has access from the local minor roads. There are substantial tracks into the closed quarries and onto the top of Stanton Moor.

**Description** The operating quarries are all substantial and are working well below the surface. None apparently have fissile rock in their currently worked areas but this may be because of their depth. Many of the buildings in the area have old stone slate roofs which indicates a local source at an earlier date.

On the moor there are many defunct quarries most of which have some fissile rock close to the surface. Generally it is friable but this may be the consequence of long exposure at the surface.

The active and dormant quarries include

<b>Quarry Name</b>	<b>Grid ref</b>	<b>PPJPB ref</b>	<b>Status</b>
Barton Hill	SK 241 623	5696	Active
Birchover	SK 242 625	5696	Active
New Pilough	SK 250645	5982	Active
Dale View	SK 250 643	3902	Active
Palmers Pilough	SK 250 641	5983	Active
TV Mast	SK 248 635	5698	Active
Stanton Moor	SK 246 643	601	Dormant
Stanton Park	SK 243 625	601	Dormant
Lee Cross	SK 252 636	5695	Dormant
Endcliffe	SK 254 636	5695	Dormant

**Geology** Ashover Grit

**Impacts** Stanton Moor is included in the Moor & Heath map but the boundary avoids the working quarries. It includes several of the defunct quarries including the areas which have fissile rock. In New Park quarry which is disused, at SK 2435 6282, there is a Regionally Important Geological Site (RIGS)

The whole of the moor is a popular recreational area.

No record Q116

No record Q117

No record Q118

**Quarry Name** Alton, Ashover/Clay Cross

**Grid Ref** SK 370644

**Database Ref** Q119

**Sample Ref** None

**Access** Adjacent to minor road

**Description** Small overgrown quarries on either side of road with some flaggy and some massive material. Height of section could not be determined.

**Geology** Sandstones (3 thin bands) between Alton and Forty Yards Coal ie a little below the Wingfield Flags.

**Impacts** Quarries partly a cottage garden, part wooded

**Quarry Name** Calow, Chesterfield

**Grid Ref** SK 403 709

**Database Ref** Q120

**Sample Ref** None

**Access** In field c20m from lay-by on road opposite Royal Hospital, Chesterfield.

**Description** Small outcrop c1-2m high and c7m long, topped by small trees in meadow. Referred to by Farey - identified by MFS - noted on 6" Geology Map. Reasonably long flags at outcrop - none loose. Much flaggy material in walls and in garden of adjacent house. Outcrops alongside road to west are also relatively flaggy but do not appear as good as material at outcrop noted above.

NB MFS refers as follows "Upperlane 6th Grit E of town 10th; Adelphi 12th. Possibly Chesterfield Rd, Old Quarry at SK 403709 in 2nd sandstone below Mickley Thin Coal." No reference here in Farey stone slate list to Adelphi but elsewhere Farey refers to the working of sandstone on the "West side of Adelphi Furnace, near Calow, some stone beds of the 12th Grit Rock are thus worked in banks 10 or 12 yds long for the use of the works. He also refers to "thurling" - working?

Area visited was the old Adelphi Ironworks which has now been removed by recent opencast coal operations just to north of Arkwrightown.

**Geology** Sandstone associated with the Mickley Thin coal

**Impacts** Close to hospital.

**Quarry Name** Handley, near Clay Cross

**Grid Ref** SK 378 619

**Database Ref** Q121

**Sample Ref** None

**Access** Adjacent to a minor road through the hamlet.

**Description** Listed in Farey; (MFS unable to locate\*) - no quarry found but exposures of fairly good flaggy material in small roadside exposures c0.5m deep in main street. Flaggy material in the local buildings but most of fields have hedges or no boundaries.

NB Other possible workings c1.5km to the south overlooking Ogston Reservoir near Ford

\* In 1811 Handley was a detached section of the main N Wingfield Parish to the NE

**Geology** Mid part of the Wingfield Flags - the outcrop here is thin. Area referred to above near Ogston is also in Wingfield Flags

**Impacts** In the middle of a hamlet.

**Quarry Name** Heath (West of)

**Grid Ref** SK 440 668

**Database Ref** Q122

**Sample Ref** None

**Access** Not accessible - see below.

**Description** Marked on 1st Edition 1" OS Map as a sandstone quarry. Now apparently opencasted completely.

**Geology** In the sandstone above the Top Hard Coal

**Impacts** None apparent

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**Quarry Name** Hodmire Lane, Stainsby, N of Hardwick

**Grid Ref** SK 458 653

**Database Ref** Q 123

**Sample Ref** None

**Access** Direct access off a narrow country lane opposite a farm.

**Description** Small heavily overgrown workings. According to John Hitch at Mill Farm it has not been worked in the last 100yrs. On the Chatsworth Estate. Possible source of stone slate roof at Mill Farm and the original roof at Stainsby Mill (now partly renewed). However according to J Hitch roof material more probably came from somewhere way to the west (? Freebirch). These buildings date from about 1850 and show some of the minor trough bedding typical of Freebirch.

**Geology** Sandstone between Top Hard and High Hazels Coals. 6" Geol map shows small outcrop of flaggy beds nearby at SK455651 on road to Hardwick, - not identified.

**Impacts**

**Quarry Name** Loadfield Quarry. South of Broomhead Reservoir, Ewden

**Grid Ref** SK 258 949

**Database Ref** Q 124

**Sample Ref\*** Q 124

**Access** Directly from Loadfield Lane

**Description** Active quarry: Loadfield Quarries (Ltd ?), Carr Road, Deepcar, Sheffield Tel 883275. Planning ref 7496 Canyards Hill Quarries.

Produces random walling and flaggy stone especially for rockeries and landscaping. Some flags up to 0.6m x 0.6 m across at some horizons but mainly fairly thickly bedded flags. Faces up to say 7m. Walls in area are usually flaggy especially to the north.

Worth further investigation

\*Also sample from wall at Walker End overlooking Broomhead Reservoir.

**Geology** Huddersfield White Rock (or Hoe Rock or Holcombe Brook Grit). Very sandy - friable.

Extensive area to the west has a very odd hill and dale appearance - looks as if it has been worked on a very large scale - however this is shown on Geological Map as landslip. This may pose a hazard in extending the workings in this direction, or it may offer scope for limited extraction from natural bluffs without the need to open a "new" site.

**Impacts** Regionally Important Geological Site RIGS at SK 2575 9490. Within Moor & Heath map. Area designated of special value by Sheffield City council. Narrow roads and visible to north.

**Quarry Name** Jagger's Clough, Edale

**Grid Ref** SK 152 872

**Database Ref** Q 125

**Sample Ref** None

**Access** Long gravelled farm track (well used) leading from the main Edale Valley road.

**Description** Face c10m tall mostly of massive material but with some flaggy beds near the top. Field walls suggest material is generally rather thick c40 - 60mm. Remains of some sorting sheds and flaggy dumps. Largish overgrown tip in front of the quarry. Ironstone balls common.

Examined in an effort to identify the key source for Edale. Referred to as an outside possibility by a local resident.

**Geology** In one of the lower leaves of the Shale Grit.

**Impacts** Within the Moor & Heath map. Fairly open site visible from wide span of valley.

**Quarry Name** Newbold Slate, Newbold, Chesterfield

**Grid Ref** SK 365732

**Database Ref** Q 126

**Sample Ref** None

**Access** None (see below)

**Description** Area shown on 1st Edition 1" OS Map as "Newbold Slate Quarry". Area now built over with housing. Low garden walls on the estate are very flaggy.

Farey's Ashgate in Brampton was not found - Ashgate is about 1.25 miles to the south west.

**Geology** Sandstone above the Deep Hard Coal. On the current 1" Geol Map dip of 8° NE is shown - surveyed 1940 - 56. NB same sandstone forms the base of Chesterfield town centre and the ridge around the A61 south to Tupton.

**Impacts** Built over.

**Quarry Name** Outlane, Holmewood, SE of Chesterfield

**Grid Ref** SK 437651 & 438653

**Database Ref** Q127

**Sample Ref** None

**Access** Off B6039. Not accessible\*

**Description** Shown on 1st Edition OS Map. On 6" Geol Map indicated as fine grained sandstone. \*Both sites completely opencasted. Small pile of flaggy sandstone in nearby garden.

**Geology** 438653 - very thin sandstone above the High Hazels Coal  
437651 - thin sandstone between the Dunsil Coal and the High Hazels Coal

**Impacts**

**Quarry Name** Rocher Bottom, near Ewden Village

**Grid Ref** SK 270 954

**Database Ref** Q 128

**Sample Ref** None

**Access** Adjacent to narrow road

**Description** Series of workings partly filled and heavily overgrown in places, but apparently worked in last 5 years. Existing faces up to 5-7m. More flaggy near the top at the entrance off the lane to White Lee Farm.

Some flaggy material in adjacent walls along road and to the south (See also Spout House Hill quarry on the top of the opposite hill). Also dilapidated barn at Rocher Farm has s/s roof.

Barnsley Geol Memoir - worked to supply Ewden Valley reservoirs -

**Geology** Base of Huddersfield White Rock. Mostly fairly massively bedded but relatively fine grained. Ochre coloured. Some flaggy material especially near the entrance.

Barnsley Geol Memoir - up to 50ft of massive jointed sstn. of which the top 10ft have weathered to a flaggy form.

**Impacts** Regionally Important Geological Sites (RIGS) at SK 2637 9275, SK 2651 9288, SK 2660 9308. Outside Moor & Heath map.

**Quarry Name** Shatton , Hope Valley

**Grid Ref** SK193818

**Database Ref** Q 129

**Sample Ref** None

**Access** Up a series of short tracks off a surfaced road.

**Description** A series of five small but marked depressions with tracks from adjacent lane - can be seen from the opposite side of the valley. They appear to be completely overgrown.

**Geology** Shale Grit. Operations appear to be in harder sandy bands in Shale Grit. Possibly one of the few old sources in the Hope Valley

**Impacts** Within the Moor & Heath map. Access is via Shatton village.

**Quarry Name** Sugworth Delph, Strines, Bradfield

**Grid Ref** SK 234 901

**Database Ref** Q 130

**Sample Ref** None

**Access** Near a minor road (Sugworth Lane) on the opposite side of the valley to Strines.

**Description** Marked as an old quarry on most OS maps. Not visited because the 1869 6" Geol Map indicates coarse grit; this is confirmed in the local walls.

Extensive workings just to the east of Sugworth Lane are not for stone but for refractory seatearths - the Pot Clay marking the base of the Coal Measures. Most of the crags just to the north-east between Blindsight Land and Horstones Lane are of coarse grit.

**Geology** Rough Rock. This coarse development in the Rough Rock contrasts markedly with the same formation elsewhere - for example, it was heavily exploited about 4km along the strike to the east from Spouthouse Hill to Brown Edge.

**Impacts** Within the Moor & Heath map.

**Quarry Name** Town End Common, Royd, Stocksbridge

**Grid Ref** SK 284 967

**Database Ref** Q 131

**Sample Ref** None

**Access** Unclear but possibly across the golf course

**Description** Large area, c0.5 km long, of quarries and dumps, possibly up to 15m deep. Small amounts of stone slates were seen near the top of the sequence, otherwise blocky and massive. Many of the nearby walls are very flaggy, particularly to the east along the main road at the top of the village, Cockshut Lane. There are a few old buildings most of which have stone slate roofs. This site does not appear to be the main source. Most of the old village of Bolsterstone c1 km to the west has stone slate roofs.

A small amount of stone slate was seen near the top of the sequence otherwise the rock is blocky and massive. Probably most of the outcrop is worked out.

**Geology** Small outlier of faulted un-named sandstone near the base of the Lower Coal Measure.

**Impacts** Adjacent to a golf course and beyond that, relatively new housing estate.

**Quarry Name** Highfields, Williamthorpe, Holmewood, Chesterfield

**Grid Ref** SK 423 658

**Database Ref** Q 132

**Sample Ref** None

**Access** Not accessible

**Description** Area completely opencasted. Shown on 1st Edition 1" OS Map as a sandstone quarry.

**Geology** The sandstone between the High Hazels and Furnace Coals

**Impacts** None apparent.

**Quarry Name** Worrall, Oughtibridge, Sheffield

**Grid Ref** SK 315 916

**Database Ref** Q133

**Sample Ref** None

**Access** Adjacent to Long Lane, Worrall (unclassified road)

**Description** Recently almost filled in with builders waste. Large to medium size quarry. Face not very clear because of tipping. Some flaggy material in adjacent walls but also some blocky.

**Geology** Loxley Edge Rock.

**Impacts**

□□□□

**Quarry Name** Wrang Plantation, Owlcotes, Heath

**Grid Ref** SK 440 681

**Database Ref** Q134

**Sample Ref** None

**Access** 100m from a public road

**Description** Fairly extensive old quarry (workings and dumps) c. 7-10m deep in places. Heavily overgrown by old trees (mainly rotting elms).

**Geology** One of a number of sandstone lenses between the High Hazes Coal above and the Top Hard Coal below. Indicated as Old Quarry on the 6" OS Map and as "Flaggy " on the 6" Geol Map. Only one face visible. This shows much clay, some coal, flaggy near the top but not apparently particularly robust.

**Impacts**

**Quarry Name** Sheepwash, Owlcotes, Heath

**Grid Ref** SK 442678

**Database Ref** Q 135

**Sample Ref** None

**Access** Via a farm road to Owlcotes Farm. The quarry is being used as a farm rubbish and waste dump.

**Description** Not visited - viewed from public road c100m away.

**Geology** Shown on the 6" Geol Map as 10ft of false bedded sandstone. Horizontal. Part of a large outcrop of sandstone immediately above the Top Hard Coal which runs c1km NW to SW as far as Doe Lea.

**Impacts** Rather open site but could easily be hidden by planting. Remote from housing

**Quarry Name** South End, Grassmoor

**Grid Ref** SK 419 665

**Database Ref** Q136

**Sample Ref** None

**Access** Not accessible - filled and covered over by loading bay and rubbish

**Description** Shown on 1st Edn OS Map as a sandstone quarry. Some rubble and flaggy but very variable sandstone material in the nearby walls.

**Geology** Thin sandstone above Dunsil Coal

**Impacts**

No record Q137

**Quarry Name** Frackley, Stanton Hill, Notts

**Grid Ref** SK 471 611

**Database Ref** Q138

**Sample Ref** None

**Access** Adjacent to B6014 at Tibshelf Road.

**Description** Large deep, 7-12m, old wooded quarry in almost level landscape. The 1st Edition 1" OS Map shows a sandstone quarry on the opposite side of the main road to the east - about SK 474 612 - this could relate to the same quarry or to a site which may now have houses on it. There are remains of other possible workings just to the southwest on the opposite side of the road at SK 469 610. Flaggy material in nearby walls.

**Geology** Sandstone immediately above Top Hard Coal. Geological Map shows dip of 5° to east. Some outcrops of sandstone but detail of face very difficult to see because it is steep sided and overgrown. Apparently flaggy material in field immediately to the east.

**Impacts** An open landscape with scattered houses along the road.

**Quarry Name** The Hurst, Tibshelf

**Grid Ref** SK 452 618

**Database Ref** Q 139

**Sample Ref** None

**Access** Probably accessible from the B road then via the farm track to the Hurst.

**Description** Not visited. In a small wood alongside the M1

**Geology** The 6" Geol Map shows 20ft of sandstone - below the Clay Cross Soft Coal (Top of Lower Coal Measures) above the Deep Soft Coal.

**Impacts**

**Quarry Name** Swineshaw Reservoir, Glossop

**Grid Ref** SK 046 958

**Database Ref** Q 140

**Sample Ref** None

**Access** Via a narrow private road serving the reservoir.

**Description** A medium sized quarry c15 - 17m deep. Scattered blocks of stone including some large carved architectural 'ecclesiastical' blocks, column tops etc - not clear if this material came from the site, was brought in for working or was simply stored here.

**Geology** Towards the top of the lower leaf of the Kinderscout Grit. Most of the material is massively bedded sandstone but the top bench (c5m) contains a limited amount of very well bedded stone with little intervening jointing allowing very large slabs to be produced. However most of bedding appears to be too thick for roofing purposes - would need detailed checking. This rock is overlain by more massive material which would require removal and if blasting proved necessary, this could damage the more thinly bedded sandstones below.

**Impacts** Within the Moor & Heath map.

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**Quarry Name** Scout Wood, Marsden

**GridRef** SE 055 113

**Database ID** Q 141

**Sample Ref** None

**Access** Tracks from an old residential area.

**Description** Name may be incorrect, it is taken from the Holmfirth Geological Memoir. The 1:25,000 base map is unclear. A 300 m long face but fissility is not clear. Flaggy material in the tips and local walls and tracks.

**Geology** Lowest part of the Pule Hill Grit. Below is a large land slip which runs down into the houses.

**Impacts** Visible from the houses below although at some distance. Instability might be a problem.

**Quarry Name**    **a** Broadstone Hill Pits    Diggle, Saddleworth  
                          **b** Running Hill Pits: Ravenstone Rocks

**Grid Ref** SE 018077(a) & 018 074 (b)

**Database Ref**    Q142

**Sample Ref**    none

**Access** Very difficult - (a) is about 1km from the nearest minor road along a heavily rutted and washed out track (b) appears to be accessed via same route but access beyond (a) is not apparent! At the top of a bleak high ridge c.1400ft above OD

**Description** Two extensive areas (a/b) each with a scatter of say 5-6 small to medium sized quarries. At the time of the visit (v. poor weather) it was not possible to see quarry (b) from (a) so not identified until later viewed from valley floor.

Quarry (a) Despite its name is mainly of coarse grained blocks of fairly massive material with only occasional bands of rather more flaggy material; possibly some underground workings but not conclusive.

Quarry (b) when viewed from Diggle (with binoculars) apparently very large slabs of sandstone on extensive tips down hillside May be the source of the extensively used stone slates in the older parts of Diggle.

**Geology** Quarry (a) Middle of lower leaf of Kinderscout Grit  
                  Quarry (b) Bottom of lower leaf of Kinderscout Grit

**Impacts** Within the Moor & Heath map.

**Quarry Name** Buckton Moor, Mossley

**Grid Ref** SD 990 018

**Database Ref** Q 143

**Sample Ref** None

**Access** Via wide modern surfaced road.

**Description** Large active aggregates quarry Operated by Wimpey. No evidence of flaggy material.

**Geology** Exploits almost the full thickness of the lower leaf of the Kinderscout Grit.

**Impacts**

**Quarry Name** Slatepit Moor, Carrbrook Mossley

**Grid Ref** SD 996 006

**Database Ref** Q144

**Sample Ref** None

NB not to be confused with Slate Pit Moss 6km to NE see below.

**Access** Apparently worked via a system of inclines presumably with railways. Access today would be difficult as it is on a very steep slope.

**Description** Workings on the side of a steep slope and on top of a hill. Not worked in living memory according to local people - The Greenfield Society may have records (contact through AIM/Styal). Working appears to be extensive including tips down hillside.

**Slate Pit Moss** - 6km to the north-east. Very remote with no roads or marked paths. It appears to be at the top of the middle leaf of the Kinderscout Grit or at the base of the upper leaf - extensive peat cover in the area. Nearby and equally remote, are Far and Near Broadslate (Readycon Dean Series/ and top of Kinderscout Grit respectively) and, to the southwest Dishstone Moss and Dishstone Rocks (crag in lower leaf of K Grit).

**Geology** In this area the Kinderscout Grit is divided by two shale bands into three sandstone leaves. These deposits are in the middle leaf. Holmfirth Geol. Memoir notes (p35) that the base of this grit consists partly of flaggy sandstone "which has been quarried many years ago for roofing slates." The deposit varies but is still flaggy to the south-east as far as Harridge (SE 995997) where it is possible that sections may be more accessible.

NB In the old 6" County Series Geol Maps this area was in Cheshire.

**Impacts** Outside the Peak Park. Main hillside overlooks Carrbrook mill village and chemical works; opposite hillside has the large Buckton Moor quarry.

**Quarry Name** Royd Edge, Meltham Moor quarries, SW of Meltham

<b><u>Grid Ref</u></b>	SE 087 092 Royd Edge	<b><u>Database Ref</u></b>	Q 145
	SE 085 087		
	SE 093 098 *	<b><u>Sample Ref</u></b>	None

**Access** Via a long quarry track off the unclassified road between Meltham and the A635 on Saddleworth Moor along Royd Edge Clough and Swinsey Dike.

**Description** A series of relatively large hillside quarries. Only viewed from a distance but varied bedding visible. Presumably a major source of stone for Meltham. There is flaggy material in the walls - on average about 5 cm thick - and slightly curved.

\* This quarry at Great Green was seen from distance and not inspected. It is not shown on the 1:25000 map (may be early edition) but is on the 1" OS Tourist Map - it may be relatively recent. One of three large quarries with tips on the steep valley hillside. There is extensive flaggy material in the walls on the minor road across the moor above - the quarries below are assumed to be the source; material is rather thick with leaves c3-5 cm.

Royd Edge quarries were operating for flagstones at the time of the Holmfirth and Glossop geological survey c1930

There are a large number of quarries in the Meltham area which appear to warrant further investigation - these are in the Huddersfield White Rock, Beacon Hill Flags and the Rough Rock. There is a comprehensive list in the Holmfirth & Glossop Geol. Memoir - unfortunately no grid references are given and there is no good 1:25000 scale topographical cover so tracing places may be difficult in some cases. One site in particular should be checked - Slate Pits Wood Quarries, Meltham - in the Rough Rock which was producing flagstones in the 1930's.

**Geology** All three quarries are in the Huddersfield White Rock. Main workings are in the lower section. The local formation is subdivided into two leaves by a mudstone horizon.

Not mentioned by Farey.

**Impacts** Within the Moor and Heath map but otherwise probably negligible. Visible from surrounding moorland.

No record Q146

No record Q147

**Quarry Name** Hardwick Hall (c)

**Grid Ref** SK 465528

**Database Ref** Q148

**Sample Ref** None

**Access** Location reported but not very clear, probably by the track from Stanley Farm

**Description** Not visited. A sandstone quarry is shown on the 1st Edition OS Map. Probably in the wooded area.

**Geology** 6" Geol Map shows 20-30 feet of sandstone. Above the High Hazels Coal and probably below the Clowne Coal.

**Impacts**

**Quarry Name** Blackshaw Clough, near Swineshaw Reservoir Glossop

**Grid Ref** SK 049959

**Database Ref** Q 149

**Sample Ref** None

**Access** Not very good. Up an unmade track partly washed away.

**Description** Relatively small quarry with steep face - worked into steep hillside. Scatter of similar quarries along the clough mainly containing blocky material.

**Geology** Towards the top of the lower leaf of the Kinderscout Grit. Probably lower in the sequence than Swineshaw quarry. Thinly bedded sandstones but close jointing at right angles causes most of material to break up into small rather blocky fragments. Not easy to ascertain what useable product was being worked here.

**Impacts** None apparent. Within the Moor and Heath map.

**Quarry Name** Grindsbrook Clough Quarry, Edale

**Grid Ref** SK 119871

**Database Ref** Q150

**Sample Ref** None

**Access** Via first section of the Pennine Way. (Carefully paved footpath)

**Description** Largely overgrown (landscaped?). The quarry is partly tree covered.

**Geology** Shale Grit Slightly flaggy material. - not very clear but much flaggy material in the wood just to the SE along the valley. Also flaggy material in the stream.

**Impacts** Very popular recreation area. At SK 114 876, Upper Tor, is a Regionally Important Geological Site (RIGS).

\* NB Acc. Cameron, Grindsbrook does not refer to grindstones - earliest records refer to Grim (personal name).

**Quarry Name** Cam Height, Hathersage

**Grid Ref** SK 259 827\*

**Database Ref** Q 151

**Sample Ref** None

**Access** Adjacent to main road

**Description** \* Place noted by Farey but workings not located with certainty. General area is at the head of a dramatic valley fringed by prominent "millstone grit" edges. Some of the outcrops, for example, at SK 259827, may have been worked but most appear to be natural. The loop between the old and the new road may possibly have been a former mineral working now infilled; if shallow workings were to west or north they may have been swallowed up by extensive peat cover. Peak Park warden noted former bell pits in marshland to the north (? c.SK258831) they could be to Ringinglow Coal but no trace was found and any such diggings would have a thick peat cover (Also they should be further north than this).

Flaggy material noted on 6" Geol Map in stream bed but not seen nor any sign of workings there.

NB At SK252823 at Callow Bank there is another possible quarry but it may be a natural outcrop/landslip. There are other possibilities at a crag near Fiddler's Elbow or near the rain gauge on Hathersage Moor at SK 252 815.

**Geology** Rivelin Grit (Chatsworth Grit) - apparently all very coarse massive grit in this area - no evidence of any flaggy material.

Farey's Shale Grit

**Impacts** Heavily used by visitors - very open landscape. Within Moor & Heath map.

**Quarry Name** Houndkirk Moor , Sheephill Road\*, S of Ringinglow.

**Grid Ref** SK 286 814

**Database Ref** Q152

**Sample Ref** None

**Access** Adjacent to the A625

**Description** \* Near Jumble Road. Very small roadside quarry which shows some apparently good flaggy material well bedded.

**Geology** Near the middle of the lower leaf of the Rivelin Grit (Chatsworth Grit ). The Rivilin Grit has a wide outcrop here. Fault immediately to the east.

**Impacts** Adjacent to busy road. Within the Moor & Heath map.

**Quarry Name** Slatepit Plantation, Slatepit Lane, Freebirch, Old Brampton

**Grid Ref** SK 305 735

**Database Ref** Q 153

**Sample Ref** None

**Access** Directly from minor road

**Description** Very shallow old workings in scrubby land. No faces visible. Noted on 1st Edition OS map as grit quarries. Very flaggy walls in general area. Large flags on the roof of Freebirch Farm - some more than 1m.

This may be "Grange Bar" of Farey (6th Grit) (Grange Hill is 1km to E) - no trace of workings found in that area or in Slatepit Plantation. Workings do appear to be old.

**Geology** Top of the Wingfield Flags main bed. Deposit continues to the west and northwest of the road towards the tumulus.

**Impacts** Open land but could be hidden by tree planting.

**Quarry Name** Puddingpie, Wadshelf, Chesterfield. Near Freebirch.

**Grid Ref** SK 310 719

**Database Ref** Q 154

**Sample Ref** None

**Access** Adjacent from two good minor roads

**Description** About 3 ha of rather shallow workings overgrown with gorse. A barn on the opposite side of the road has a stone slate roof.

The old quarry could probably be extended to the north and possibly the north-west. To the east there is a narrow band of mudstone running discordantly through the Wingfield Flags.

Farey : Brampton (W) Pudding Pie Hill

**Geology** In the middle of the Wingfield Flags

Farey : 5th Grit

**Impacts** Outside Moor & Heath map. An open site next to a main road. Not likely to be significant.

**Quarry Name** Riddings, Wadshelf, Chesterfield

**Grid Ref** SK 320 714

**Database Ref** Q155

**Sample Ref** None

**Access** 150m from road - check.

**Description** Not visited. Old quarries c2 ha and two detached small outcrops at SK 319713 and SK 322710. Potential to extend to the north-west but this is towards the road and houses.

**Geology** Top of Main Leaf of Wingfield Flags. 6" Geol Map shows 18ft of flags. Flaggy material in main the quarry dips 50 NE.

**Impacts** Not known

**Quarry Name** Bole Hill\* Unthank, Millthorpe, Chesterfield. ⚠

\* possibly same as Ramley Reservoir.

**Grid Ref** SK 296 746

**Database Ref** Q 156

**Sample Ref** None

**Access** Adjacent to a minor road.

**Description** On the 1st Edition OS Map. Small grass covered mounds and workings (c1ha) - no faces now evident. This may be the quarry referred to by Farey as Unthank West, near Holmesfield. However Unthank may be at SK 302 752 "gravel pit" on 1st Edition OS Map or 302756 (narrow inaccessible ravine)

**Geology** Base of the Wingfield Flag Main Leaf. On the 6" Geol Map - fine grained sandstone.

Farey's Unthank West - 4th Grit

**Impacts** Open area - adjacent to minor road. Outside the Moor and Heath map.

**Quarry Name** Old Totley

**Grid Ref** SK 3031

**Database Ref** Q 157

**Sample Ref** None

**Access** No specific site, access to the general area is good.

**Description** Most of the older buildings in Totley have stone slate roofs (see book: Brian Edwards Drawings of Historic Totley) and flaggy material is evident in walls. No documentary evidence of operations in the immediate area. It is possible that the workings have been built on by extensions of Totley, especially the college.

There may be some suitable rock in Little Wood and Gillfield Wood. Totley Moss or Moor, Flask Edge and Brown Edge\* immediately across the valley to the west have broad outcrops of Rough Rock but no obvious evidence of working. Nearest walls along main road down from Owler Bar is blocky, not flaggy as might be expected if this had been the source.

\* This is not the same Brown Edge as the major quarry site near Ringinglow.

**Geology** Both leaves of the Greenmoor Rock sweep across the hillside to the west of Totley. Two small flaggy outcrops of Greenmoor Rock are shown on the 6" Geological Map in the college area (SK 308 796 & 309 795).

**Impacts** The area is generally visible from the A621 road from the Peak Park into Sheffield. In the Green Belt adjacent to a suburb of Sheffield.

**Quarry Name** Hagg Bridge, Midhope Reservoir, Upper Midhope.

**Grid Ref** SK 225 998  
SK 221 997

**Database Ref** Q 158

**Sample Ref** None

**Access** Directly from minor road.  
Second quarry not easy. Access via 2 houses

**Description** Very small quarry near the foot of the earthfill reservoir. Particularly flaggy near top. Rather larger quarry at SK 221997 which probably also provided material for the reservoir (c1900) but reported to be no flaggy material there.

In Midhopestones and Upper Midhope most of the buildings have stone slate roofs. A number of people were questioned but none were able to identify the source (both villages totally on Rough Rock but no evident quarries apart from these two small sites). Apparently quite a few houses were rebuilt with stone slates from older ones which were destroyed in advance of the construction of the three reservoirs. Others were re-roofed at the same time. (Information from Nora(?) Mossley, local historian, Stocksbridge Road, Midhopestones). Source may have been the base of the Greenmoor Rock at Hartcliffe c.2.5 km to the north and listed by Farey.

(Another local site not visited - small quarries in Rough Rock at northern end of Langsett Reservoir Embankment cSE214 004)

Very flaggy walls around Flouch Inn cross roads

**Geology** Rough Rock

**Impacts** Near to reservoir. Outside Moor & Heath map.

No record Q159

**Quarry Name** Sheen Hill, Sheen, Hartington.

**Grid Ref** SK 105 624

**Database Ref** Q 160

**Sample Ref** None

**Access** Adjacent to reasonable minor roads

**Description** Square shaped outlier of sandstone gives rise to a hill with a marked profile. A scatter of small quarries around the edge at the grid reference noted and to the north and south-east.

Adjacent farm is "Slate House Farm" - owner did not know basis of name - pointed to a small quarry on the hill behind house insisting that it did not contain flaggy material. Some flags in the farmyard brought from outside the area - no stone slates on the roof. However from a distance the farm immediately to the north-east (High Sheen Farm) does appear to have stone slate roofs. The barn opposite Manor Farm, Staffs Knot Cottage and the outhouse at Walton Cottage have stone slates.

Townend quarry not found at SK 109 606 - possibly converted to a garden

Brund a hamlet 1km SW of Sheen Hill has a number of buildings with stone slate roofs.

**Geology** Sheen Sandstone - the top of three leaves outcrops - Townhead quarry is in the bottom leaf - ie the local sandstone lying between Kinderscout Grit and Corbar Grit. Coarse grained massive pink sandstone.

**Impacts** Outside Moor & Heath map. Situated on a prominent but small hill

**Quarry Name** Bamford Moor, Bamford

**Grid Ref** SK 216 843

**Database Ref** Q 161

**Sample Ref** None

**Access.** Along very narrow overgrown track 3-400m off narrow public road

**Description** Two sites one small and overgrown the other a medium to large scale quarry with faces up to 14m about 4Ha

**Geology** Kinderscout Grit - middle of bottom leaf - the larger quarry marked south-westerly dip is in fact false bedding - true general dip in area is to WNW. Some thin beds containing thin flaggy leaves possibly suitable for stone slates, but mostly massive and coarsely including small pebbles. Some iron sand balls.

**Impacts** Open moorland on ridge exposed to views from Hope Valley - a popular visitor area.

Within Moor & Heath map.

**Quarry Name** Bole Hill Wood, Bamford

**Grid Ref** SK 226 838

**Database Ref** Q162

**Sample Ref** BAM 1

**Access** Along reasonable farm track 50m from a narrow public road

**Description** Medium scale quarry c 3-4Ha. Faces 5-7m tall. Farm rubbish dumped in places. Was probably a source of stone slates together with coarser building stone

**Geology** In lower part of the Kinderscout Grit - fairly near the base. 6" Geol Map - sandstone showing false bedding. Dips to the SW - 20ft (face)- True dip to NE. Not mentioned by Farey but shown on 1st Edition OS 1" Map as Slate Quarry.

One section showed :

Top -

Badly weathered material.

"Planar" bedding - 0.6m

Cross bedding - 0.75m

Thin shale - 0.1 m

"Planar" bedding - 0.75m

Massive bedding\* - +1.0m

(\* coarse grained)

**Impacts** Fairly open views to the south and east to the main scarp and North Lees Hall. Workings could be easily hidden. Just inside the Moor and Heath map.

**Quarry Name** Nether Tor, Edale

**Grid Ref** SK 122 876

**Database Ref** Q163

**Sample Ref** None

**Access** Very poor - at about 1800 - 1900 ft above OD, this is probably Derbyshire's highest quarry. Long quarry track via The Nab and has in part been washed away.

**Description** Edale has no obvious source of s/s despite the fact that most of the buildings date from the sixteenth or seventeenth century. A careful search of general area found a natural crag opened up as a medium sized quarry. Site was, according to locals, the main source of stone for Edale Village - used in the church ?Victorian. Most of the more recent stone slate repairs have used material from near Hathersage, but replacements used now are from "Huddersfield." Small roof in outbuilding of Church Cottage is being re-slatted.

NB Cameron (Derbyshire Place Names p90): field names on 1840 Tithe Awards - Slate Field and Slateman's Bank.

**Geology** Base of Kinderscout Grit with some detached thin lower leaves also present. Major landslip immediately south of the crag may have resulted from quarrying or may be natural. Mainly very massive coarse grit in thick beds - large scattered blocks. Apparently some more flaggy material higher up in the face but not clear nor accessible.

**Impacts** SK 123 876, Nether Tor, is a Regionally Important Geological site (RIGS).

**Quarry Name** Corbar Woods

**GridRef** SK 055 745

**Database ID** Q 164

**Sample Ref** None

This is not Curbar near Hathersage & Grindleford

**Access** Lanes in from A 5004

**Description** Old workings extending about 0.5 km just above the houses in Corbar Road Buxton.. An important source of stone for Buxton until about 1900.

**Geology** Corbar Grit. 6" geology map gives - "Old quarry at SK 0550 7557 (this grid ref is incorrect) beds dipping at 17° NNW"

Section	Flaggy sandstone	7.32 m
	Not exposed	3.35
	Sandstone	4.27
	Not exposed	-----
	Sandy mudstone	1.68
	Coarse massive sandstone	5.18

Buxton geology memoir refers to a "variable complex of up to four leaves of sstn over a total thickness of 200 m. (Turbidite) Commonly flaggy with siltstone and mudstone partings. The old quarry at Corbar Hill SK 0497 7405 beds are 20.28 m thick."

Several separate bands of sandstone in Corbar Woods have references to mudstone, flaggy sandstone and micaceous sandstone. Roaches Grit above is coarser, micaceous and pink, for example, in the quarry at SK 0545 9497

**Impacts** Outside the Peak Park. At the top of the steep slope above are Corbar Woods a public open space. Houses below.

**Quarry Name** Hallowes, Dronfield

**Grid Ref** SK 360 774

**Database Ref** Q165

**Sample Ref** None

**Access** The various possible sites appear to have been built over.

**Description** Not visited. Location of former Hallowes Farm. 1" and 2.5" 1st Edition OS Map shows a number of sandstone quarries in this area eg 356773, 350777 (Shirecliffe Farm), 358770, 358768 (Highfield), 356776. There is a scatter of other former quarries on the same outcrop.

Referred to by Farey as Dronfield (s), Hallows.

**Geology** All in the middle or lower half of an extensive outcrop of the Silkstone Rock - no references to obviously flaggy material. Sheffield and Chesterfield Geol Survey Memoir suggests that the Silkstone Rock is generally flaggy - around Sheffield it is occasionally up to 150ft thick and in a single leaf, but more commonly thinner and in a number of leaves. (Sheffield Memoir).

Farey's 9th Grit

**Impacts** Almost the entire outcrop has been developed by the expansion of large housing estates in Dronfield and Dronfield Woodhouse; the edges of the outcrop closely defining the built up area.

**Quarry Name** Fulwood Head, Ringinglow, Sheffield

**Grid Ref** SK 278 849

**Database Ref** Q 166

**Sample Ref** None

**Access** Off Fulwood Lane - minor road but good.

**Description** Referred to by Farey. Two small former quarries with tips on the side of a deep valley. Virtually totally grassed over and reclaimed. Tips and walls suggest good stone slate rock would have been available.

**Geology** Rough Rock - near the base of the sequence.

Farey's Third Grit

**Impacts** Just outside the Peak Park.

No record Q167

**Quarry Name** Lord's Seat, Redmires Reservoir, Sheffield (W)

**Grid Ref** SK 255 859

**Database Ref** Q168

**Sample Ref** None

**Access** Poor, through an old plantation to the public road.

**Description** Old workings forming a cut across a ridge and tips overlooking Redmires Top Reservoir. Probably supplied the reservoir project c1900. Heavily overgrown with grass and heather.

According to Chapel en le Frith Geological Memoir (p245) there is a small quarry at SK2508 8528 to the south - 2.5ft flaggy sandstone on 4ft of massive sandstone. There is a similar mix of massive and flaggy material at Moscar Heights 2.5 km NNW, for example in the quarry at SK2407 8830 which has 25ft of massive material, yet nearby exposures are flaggy.

Not likely to be a source of slates.

**Geology** Rough Rock. Dip 10<sup>0</sup> to WSW. Mostly coarse, apparently massive grit - occasional flaggy material which can be seen in the nearby wall.

**Impacts** None apparent. Outside Moor & Heath map.

**Quarry Name** White Knowle, Chinley,

**Grid Ref** SK 051 830

**Database Ref** Q 169

**Sample Ref** None

**Access** Close to A624

**Description** Not visited. Noted by Farey as White Knowle, Hayfield. The 6" Geological Map (SK 08SE 1952-7 mapped by IPS) refers to White Knowle quarry as being at SK 0515 8305 - very close to White Knowle farmhouse and as containing both flaggy and coarse sandstone in contrast to the felspathic coarse even pebbly sandstone more typical of the Kinderscout Grit in this area.

Another small quarry on the map at SK 053 830 on the opposite side of the main road. Not visited but appeared to be flaggy. Just to the north is Bradshaw Fields quarry at SK 052 836 - deserves further examination (See Lamb Inn quarry database ref Q89).

**Geology** Near the base of the upper leaf of the Kinderscout Grit in all the above quarries.

Farey - Shale Grit

**Impacts** Although most of the sites are close to the A624 and some are on a small ridge, they are relatively small and thus not conspicuous. Area is dramatic landscape and careful control would be needed, but small operations, particularly up the subsidiary valley east of the A624, could easily be hidden.

Outside the Moor & Heath map.

**Quarry Name** Hayfield

**Grid Ref** SK 044 867

**Database Ref** Q170

**Sample Ref** None

**Access** Directly off the very narrow road which passes through the residential area of Hayfield before reaching the A624.

**Description** A number of large sandstone quarries along the lower valley slopes. Some supplied the construction of Kinder Reservoir in 1908 (linked by railway to the site) but were also worked before and after for general markets. Main operations were on the south side of the valley at SK 044 867(a) (Hayfield quarry), but also included workings at SK 048 869 (b), and on the higher slopes at SK 047870. (a) and (c) were visited.

(a) Large face 160ft (Geol Map/ Memoir) last worked in 1960's possibly even 1970's.

**Geology** (a) Works virtually the full thickness of the lower leaf of the Kinderscout Grit. Coarse massive brown sandstone - very thickly bedded. Dip 180 to WSW.

**Impacts** Outside Moor & Heath map.

**Quarry Name** Knotberry End and Orchard Common

**Grid Ref** SK 023 694

**Database Ref** Q 171

**Sample Ref** None

**Access** There are several tracks in the area which may have originally been access routes to stone quarries or coal mines.

**Description** Within the area of Orchard Common on the crest of the ridge running south-east from Reeve Edge (Q 18) there are some largish holes with fissile rock. Exposures are up to 20 feet long.

**Geology** Rough Rock

**Impacts** Within the Moor & Heath map and an SSSI. Peak Park owned land. Position is very isolated and although the crest of the moor is visible from the surrounding area the holes are hidden. Remote from houses.

**Quarry Name** Eccles Fold

**GridRef** SK 030 816

**Database ID** Q 172

**Sample Ref** E F

See also Buxworth Crist Q29 and Top Eccles farm Q14

**Access** Difficult - along a cart track from narrow steep road from Buxworth Crist

**Description** A series of quarries of varying size running around the slope of the hill above Crist. Not explored in detail but there is plenty of thin material in the walls.

**Geology** Chatsworth grit

**Impacts** Outside the Peak Park and the Moor & Heath map. Seems to be little conservation or social & recreational impact but would be visible from low ground to the north.

**Quarry Name** Roach Tor, Chapel on le Frith.

**Grid Ref** SK 082 838

**Database Ref** Q 173

**Sample Ref** None

**Access** Not known

**Description** This area was only viewed from a distance and it is not even certain that it is a quarry. If it is it may have been associated with the building of the Cowburn tunnel.

**Geology** Not known.

**Impacts** Within the Moor & Heath map.

**Quarry Name** Harden Edge, Harden, Homfirth

**Grid Ref** SE 155 036

**Database Ref** Q174

**Sample Ref** Q174

**Access** Directly to a wide minor road

**Description** Very small roadside quarry overlooking Winscar Reservoir. Very good quality large flags. Opposite Snailsden quarries and just south-east of Harden Clough quarries.

**Geology** Fairly near the base of the Rough Rock Flags. The outcrop here is very narrow particularly compared to the area immediately to the west. If extended into the hill the overburden may become excessive - would need to be checked - could be extended to the north-west and the south-east along the strike (ie parallel with the road) without difficulty.

**Impacts** Visible from the adjacent road and reservoir. Within Moor & Heath map.

**Quarry Name** Bretton along Eyam Edge

**GridRef** SK 205 777

**Database ID** Q 175

**Sample Ref** None

See also Eyam Q 52

**Access** Alongside the road along Eyam Edge

**Description** Several old workings along the road near the Public House. They are now all filled in or overgrown. Slatey material in walls.

**Geology** Shale Grit

**Impacts** Outside the Moor & Heath map. Just below or on the skyline but otherwise no obvious impacts other than visibility from road and open countryside to the south.

**Quarry Name** Stoke in Hope, Goatscliff

**GridRef** SK 235 770

**Database ID** Q 176

**Sample Ref** None

See also Bretton on Eyam Edge

**Access** Good access off the minor road.

**Description** Large operating quarry but no slate. Mainly massive but some flaggy at the top.

Farey records Stoke in Hope which is not likely to be this quarry but may refer to an Eyam Edge source about 1 mile to the west at SK 230 768.

**Geology** Shale Grit

**Impacts** Outside the Moor & Heath map.

**Quarry Name** Long Clough Near Glossop

**GridRef** SK 031 925

**Database ID** Q177

**Sample Ref** None

**Access** Along road off A6016

**Description** Tiny quarry within a nature reserve. Possibly one of the quarries included within Farey's reference to Chunal.

**Geology**

**Impacts** Within a nature reserve.

# Annexes

Annex 2.1 The quarries listed alphabetically

Quarry Name	Reference	Grid Reference
Abney Moor	Q11	SK 189803 & 181807
Alton	Q119	SK 370664
Ambervale	Q2	SK 333629
Ashover	Q82	SK 310645
Astwith	Q38	SK 440640 & 436638
Bakestonedale Moor	Q9	SJ 953801
Bamford Moor	Q161	SK 216843
Bentleybrook	Q96	SK 314611 ++
Billinge	Q84	SJ 955777
Birch Vale	Q91	SK 022865 023866
Blackshaw Clough	Q149	SK 049959
Bole Hill	Q156	SK 296746
Bole Hill & Millstone Edge	Q88	SK 249795 & 248805
Bole Hill Wood, Bamford	Q162	SK 226838
Bole Hill	Q24	SK 219841
Bolehill, Wingerworth	Q28	SK 368661
Bond's quarry	Q78	SK 275661
Breck	Q97	SJ 937795
Bretton	Q175	SK 225777
Brink. North of Teggs Nose	Q44	SK 953737
Broadstone & Running Hills	Q142	SE 018074 018077
Brock Holes	Q49	SK 075998
Brown Edge	Q23	SK 277838 ++
Buckton Moor	Q143	SD 990018
Buxworth Crist	Q29	SK 027818
Calow	Q120	SK 403709
Cam Height	Q151	SK 259827
Cartledge	Q45	SK 325768
Charles Lane	R75	SK 045950
Charlesworth	Q54	SK 008927
Chunal	Q10	SK 036915
Coalburn	Q25	SK 375539
Cockerhill	Q106	SK 024975
Corbar Woods	Q164	SK 055745
Cown Edge	Q6	SK 015918
Cracken Edge	Q4	SK 037835
Crich	Q61	SK 348 532
Cunner	Q100	SK 328590 eastwards
Daisy Knowl, Longnor	Q99	SK 082652
Dane Bower	Q3	SK 014701
Dane Head	Q17	SK 026703 & 028708

<b>Quarry Name</b>	<b>Reference</b>	<b>Grid Reference</b>
Derbyshire Oaks	Q16	SK 337605
Duke's quarry	Q103	SK 333546
Dutton's quarry	Q15	SK 336626
Dutton's. SE of,	Q56	SK 340624
Eccles Fold	Q172	SK 030816
Edge, Manners Wood	Q12	SK 232684
Eyam	Q52	SK 223770
Farley Moor	Q110	SK 297627
Five Clouds	Q68	SK 003623
Flash Bottom	Q98	SK 019662
Frackley	Q138	SK 471611
Freebirch	Q19	SK 310726
Fulwood Booth	Q67	SK 272853
Fulwood Head	Q166	SK 278849
Gipsy Hill	Q41	SK 510778
Glossop Low	Q58	SK 058964
Goytes Clough	Q1	SK 013734
Grindsbrook Clough	Q150	SK 119871
Hagg Bridge	Q158	SK 225998 +
Hallowes	Q165	SK 360774
Handley	Q121	SK 378619
Harden Clough	Q53	SE 145040
Harden Edge	Q174	SE 155036
Hardwick Hall. Below the	Q42	SK 462634
Hardwick Hall. By the lake.	Q21	SK 454640
Hardwick Hall. To the East.	Q148	SK 465528
Hartcliff Hill	Q60	SE 221018
Hayfield	Q90	SK 030869
Hayfield	Q170	SK 044867 etc
Heath	Q122	SK 440668
Hen Clouds	Q76	SK 012617
Highfields Williamthorpe	Q132	SK 423658
Highlikely	Q83	SK 316641
Hillhouse Head	Q113	SE 129055 +
Hodmire Lane, Stainsby	Q123	SK 458653
Hollinsclough Rake	Q69	SK 059668
Holme Moss.	Q51	SK 091037
Holybank	Q104	SK 026976
Hound Kirk	Q57	SK 287830
Houndkirk Moor	Q152	SK 286814
Hucklecroft	Q40	SK 483625

Annex 2.1 The quarries listed alphabetically

Quarry Name	Reference	Grid Reference
Shillitoe Forest	Q22	SK 295748 - 295758
Shirehill	Q86	SK 054945
Sitch (Thornsetts)	Q87	SK 021874
Slack Edge	Q70	SK 015928
Slate Pit Moor	Q144	SD 996006
Slatepit Dale	Q26	SK 345678
Slatepit Plantation	Q153	SK 305735
South End Grassmoor	Q136	SK 419665
Spout House Hill	Q65	SK 275947
Stanton Moor	Q115	SK 240620-250645
Stoke Hall Goatscliff	Q176	SK 238770
Stone Edge Plantation	Q107	SK 340673
Stonebrake	Q105	SK 028978
Sugworth Delph	Q130	SK 234901
Sutton Lane	Q39	SK 436694
Sutton Scarsdale	Q37	SK 447687
Swineshaw reservoir	Q140	SK 046958
Tax Farm	Q30	SK 295633
Teggs Nose	Q7	SJ 948725
Temple Normanton	Q34	SK 416670
Thornseats Delf	Q33	SK 230925
Top Eccles Farm	Q14	SK 031810
Town End Royd	Q131	SK 284967
Tyas Quarry	Q55	SE 170031
Upperwood House	Q109	SE 022060
Wet Wivens, Eyam Moor	Q20	SK 226792
Whirlow & Whinfell	Q46	SK 309826
White Edge, Hathersage	Q66	SK 261786
White Knowle	Q169	SK 051830
White Rakes	Q5	SK 037843
White Tor	Q31	SK 310576 310573
Whitfield	Q59	SK 039933
Wimberry Moss	Q85	SJ 965765
Windgather Rocks	Q27	SJ 995782
Windyridge	Q114	SE 131056
Woodbrook	Q80	SK 282659
Woodhead Pass	Q108	SK 050986 - 084998
Worral	Q133	SK 315916
Wragg's quarry	Q79	SK 283664
Wrang Plantation	Q134	SK 440681

Annex 2.1 The quarries listed alphabetically

Quarry Name	Reference	Grid Reference
Hunger Hill	Q92	SK 325674
Hurst	Q139	SK 452618
Isle of Skye	Q72	SE 089079
Jagger's Clough	Q125	SK 152872
Knotberry End	Q171	SK 023694
Lamb Inn	Q89	SK 049842 - 052836
Loadfield	Q124	SK 258949
Longclough	Q177	SK 031925
Lord's Seat	Q168	SK 255859
Lumsdale	Q95	SK 318609
Lumshill	Q94	SK 316613
Lyme Park	Q62	SJ 952815 +++
Macstone Kerridge	Q8/2	SJ 939763
Marksend Kerridge	Q8	SJ 943757
Marsden	Q112	SE 040108
Matlock Moor	Q93	SK 307627
Meltham Cop	Q73	SE 094120
Mickley Farm	Q43 1&2	SK 327795
Moorfield.	Q71	SK 043926
Nether Tor	Q163	SK 122876
Newbold	Q126	SK 365732
Old Engine Farm	Q101	SK 330618
Old Totley	Q157	SK 30_31
Outlane, Holmwood	Q127	SK 437651 +
Peakley Hill	Q47	SK 334766 & 335763
Press	Q35	SK 371652
Puddingpie	Q154	SK 310719
Pule Hill	Q111	SE 035101
Redcarr Hill	Q32	SK 368658
Reeve Edge	Q18	SK 015700
Riddings	Q155	SK 320714
Roach Tor	Q173	SK 082838
Roach Wood	Q81	SK 314663
Rocher Bottom	Q128	SK 270954
Rock Farm	Q77	SK 024913
Rowarth	Q13	SK 018886 & 023882
Royd Edge	Q145	SE 087092 ++
Scout Wood	Q141	SE 055113
Shatton	Q129	SK 193818
Sheen Hill	Q160	SK 105624
Sheepwash	Q135	SK 442678

Annex 2.1 The quarries listed alphabetically

Quarry Name	Reference	Grid Reference
Shillitoe Forest	Q22	SK 295748 - 295758
Shirehill	Q86	SK 054945
Sitch (Thornsetts)	Q87	SK 021874
Slack Edge	Q70	SK 015928
Slate Pit Moor	Q144	SD 996006
Slatepit Dale	Q26	SK 345678
Slatepit Plantation	Q153	SK 305735
South End Grassmoor	Q136	SK 419665
Spout House Hill	Q65	SK 275947
Stanton Moor	Q115	SK 240620-250645
Stoke Hall Goatscliff	Q176	SK 238770
Stone Edge Plantation	Q107	SK 340673
Stonebrake	Q105	SK 028978
Sugworth Delph	Q130	SK 234901
Sutton Lane	Q39	SK 436694
Sutton Scarsdale	Q37	SK 447687
Swineshaw reservoir	Q140	SK 046958
Tax Farm	Q30	SK 295633
Teggs Nose	Q7	SJ 948725
Temple Normanton	Q34	SK 416670
Thornseats Delf	Q33	SK 230925
Top Eccles Farm	Q14	SK 031810
Town End Royd	Q131	SK 284967
Tyas Quarry	Q55	SE 170031
Upperwood House	Q109	SE 022060
Wet Wivens, Eyam Moor	Q20	SK 226792
Whirlow & Whinfell	Q46	SK 309826
White Edge, Hathersage	Q66	SK 261786
White Knowle	Q169	SK 051830
White Rakes	Q5	SK 037843
White Tor	Q31	SK 310576 310573
Whitfield	Q59	SK 039933
Wimberry Moss	Q85	SJ 965765
Windgather Rocks	Q27	SJ 995782
Windyridge	Q114	SE 131056
Woodbrook	Q80	SK 282659
Woodhead Pass	Q108	SK 050986 - 084998
Worral	Q133	SK 315916
Wragg's quarry	Q79	SK 283664
Wrang Plantation	Q134	SK 440681

Annex 2.1 The quarries listed alphabetically

Quarry Name	Reference	Grid Reference
Shillitoe Forest	Q22	SK 295748 - 295758
Shirehill	Q86	SK 054945
Sitch (Thornsetts)	Q87	SK 021874
Slack Edge	Q70	SK 015928
Slate Pit Moor	Q144	SD 996006
Slatepit Dale	Q26	SK 345678
Slatepit Plantation	Q153	SK 305735
South End Grassmoor	Q136	SK 419665
Spout House Hill	Q65	SK 275947
Stanton Moor	Q115	SK 240620-250645
Stoke Hall Goatscliff	Q176	SK 238770
Stone Edge Plantation	Q107	SK 340673
Stonebrake	Q105	SK 028978
Sugworth Delph	Q130	SK 234901
Sutton Lane	Q39	SK 436694
Sutton Scarsdale	Q37	SK 447687
Swineshaw reservoir	Q140	SK 046958
Tax Farm	Q30	SK 295633
Teggs Nose	Q7	SJ 948725
Temple Normanton	Q34	SK 416670
Thornseats Delf	Q33	SK 230925
Top Eccles Farm	Q14	SK 031810
Town End Royd	Q131	SK 284967
Tyas Quarry	Q55	SE 170031
Upperwood House	Q109	SE 022060
Wet Wivens, Eyam Moor	Q20	SK 226792
Whirlow & Whinfell	Q46	SK 309826
White Edge, Hathersage	Q66	SK 261786
White Knowle	Q169	SK 051830
White Rakes	Q5	SK 037843
White Tor	Q31	SK 310576 310573
Whitfield	Q59	SK 039933
Wimberry Moss	Q85	SJ 965765
Windgather Rocks	Q27	SJ 995782
Windyridge	Q114	SE 131056
Woodbrook	Q80	SK 282659
Woodhead Pass	Q108	SK 050986 - 084998
Worral	Q133	SK 315916
Wragg's quarry	Q79	SK 283664
Wrang Plantation	Q134	SK 440681

Annex 2.1 The quarries listed alphabetically

Sub area	Grid Reference	Quarry ref	Quarry name	Locality	Horizon
SAD	SD 990018	Q143	Buckton Moor	Mossley	Kinderscout Grit
SAD	SD 996006	Q144	State Pit Moor	Carrbrook Mossley	Kinderscout Grit
SAD	SE 018074 & 018077	Q142	Broadstone & Running Hill	Diggie Saddleworth Moor	Kinderscout Grit
SAD	SE 022060	Q109	Uppercowd House	Saddleworth Moor	
WHF	SE 035101	Q111	Pule Hill	Marsden	
WHF	SE 040108	Q112	Marsden	Marsden SW of village	
WHF	SE 055113	Q141	Scout Wood	Marsden	Pule Grit
WHF	SE 087092 ++	Q145	Royd Edge	Meltham	Huddersfield White Rock
WHF	SE 089079	Q72	Isle of Skye	Meltham	Huddersfield White Rock
DON	SE 094120	Q73	Meltham Cop	Meltham	Huddersfield White Rock?
WHF	SE 129055 +	Q113	Hillhouse Head	Holmfirth	
WHF	SE 131056	Q114	Windridge	Holmfirth	
DON	SE 145040	Q53	Harden Clough	Holmfirth	Rough Rock Flags
WHF	SE 155036	Q174	Harden Edge	Holmfirth	Rough Rock Flags
DON	SE 170031	Q55	Tyas Quarry	Penistone Dunford Bridge	Rough Rock Flags
DON	SE 221018	Q60	Hartcliff Hill	Penistone	Grenoside Rock
MAC	SJ 937795	Q97	Breck 2 quarries	Bollington	Un-named SS
MAC	SJ 939763	Q8/2	Macstone Kerridge	Macclesfield	Milnrow SS
MAC	SJ 943757	Q8	Marksend Kerridge	Macclesfield	Milnrow SS
MAC	SJ 948725	Q7	Teggs Nose	Macclesfield	Chatsworth Grit
MAC	SJ 952815 +++	Q62	Lyme Park	Disley Cheshire	
MAC	SJ 953801	Q9	Bakestonedale Moor	Bollington	Milnrow SS
MAC	SJ 955777	Q84	Billinge	Bollington	Rough Rock
MAC	SJ 965765	Q85	Wimberry Moss	Bollington	Holcombe Brook Grit
MAC	SJ 995782	Q27	Wingather Rocks	Kettlesnaine	Chatsworth Grit base
DVS	SK 003623	Q68	Five Clouds	Roaches	Five Clouds SS = Corbar Grit
HPF	SK 008927	Q54	Charlesworth	Glossop	Rough Rock
DVS	SK 012617	Q76	Hen Clouds	Roaches	Roaches Rock
MAC	SK 013734	Q1	Goytes Clough	Buxton	Rough Rock top
DVS	SK 014701	Q3	Dane Bower	Wincle	Rough Rock mid & top
DVS	SK 015700	Q18	Reeve Edge	Wincle	Rough Rock Middle
HPF	SK 015918	Q6	Cown Edge	Glossop Charlesworth	Rough Rock
HPF	SK 015928	Q70	Slack Edge	Glossop Charlesworth	Rough Rock
HPF	SK 018886 & 023882	Q13	Rowarth	New Mills	Rough Rock
DVS	SK 019662	Q98	Flash Bottom	Buxton	

Annex 2.2 Quarry locations listed by grid reference.

Sub area	Grid Reference	Quarry ref	Quarry name	Locality	Horizon
HPF	SK 021874	Q87	Stich (Thornsetts)	New Mills	Woodhead Hill Rock
HPF	SK 022865 & 023866	Q91	Breh Vale 2 quarries	New Mills	Woodhead Hill Rock
DVS	SK 023694	Q171	Knoberry End	Wincle	Rough Rock
HPF	SK 024913	Q77	Rock Farm	Glossop Nr Cown Edge	
HPF	SK 024975	Q106	Cockerhill	Glossop Tintwistle	Kinderscout Grit
DVS	SK 026703 & 028708	Q17	Dane Head	Wincle	Rough Rock - Base
HPF	SK 026976	Q104	Holybank	Glossop Tintwistle	Kinderscout Grit
HPF	SK 027818	Q29	Buxworth Crst	Chapel en le Frith	Chatsworth Grit
HPF	SK 028978	Q105	Stonebrake quarries	Glossop Tintwistle	Kinderscout Grit
HPF	SK 030816	Q172	Eccles Fold	Whalley Bridge	Chatsworth Grit
HPF	SK 030869	Q90	Hayfield	New Mills	Chatsworth grit
HPF	SK 031810	Q14	Top Eccles Farm	Chapel en le Frith	Chatsworth Grit
HPF	SK 031925	Q177	Longlough	Glossop	
HPF	SK 036915	Q10	Chunal 1 & 2	Glossop	Kinderscout Grit upper
HPF	SK 037835	Q4	Cracken Edge	Chimley	Rough Rock Flags
HPF	SK 037843	Q5	White Rakes	Chimley	Rough Rock Flags
HPF	SK 039933	Q59	Whitfield	Glossop	Kinderscout Grit
HPF	SK 043926	Q71	Moorfield West of	Glossop	
HPF	SK 044867 etc	Q170	Hayfield	Hayfield	Kinderscout Grit lower
HPF	SK 045950	R75	Charles Lane	Glossop	Kinderscout Grit
HPF	SK 046958	Q140	Swineshaw reservoir	Glossop	Kinderscout Grit
HPF	SK 049842 - 052836	Q89	Lamb Inn 3 quarries	Chimley	Kinderscout Grit top
HPF	SK 049959	Q149	Blackshaw Clough	Glossop	Kinderscout Grit
HPF	SK 050986 - 084998	Q108	Woodhead Pass	Woodhead Pass	Kinderscout Grit lower
HPF	SK 051830	Q169	White Knowle	Chimley	Kinderscout Grit base
HPF	SK 054945	Q86	Shirchill	Glossop	Kinderscout Grit
HPF	SK 055745	Q164	Corbar Woods	Buxton	Corbar Grit
HPF	SK 058964	Q58	Glossop Low	Glossop	Kinderscout Grit
DVS	SK 059668	Q69	Hollinslough Rake	Hollinslough	Five Clouds SS = Corbar Grit
HPF	SK 075998	Q49	Brock Holes	Woodhead Pass	Kinder Scout middle
DVS	SK 082652	Q99	Daisy Knoll Longnor	Buxton	Longnor SS
HPF	SK 082838	Q173	Roach Tor	Chimley	
DON	SK 091037	Q51	Hohne Moss South of mast	Holmfirth	Huddersfield White rock

Annex 2.2 Quarry locations listed by grid reference.

Sub area	Grid Reference	Quarry ref	Quarry name	Locality	Horizon
DVS	SK 105624	Q160	Sheen Hill	Hartington	Sheen SS
EUD	SK 119871	Q150	Grimsbrook Clough	Edale	Shale Grit
EUD	SK 122876	Q163	Nether Tor	Edale	Kinderscout Grit lower
EUD	SK 152872	Q125	Jagger's Clough	Edale	Shale Grit
EUD	SK 189803 & 181807	Q11	Albney Moor nr track	Bradwell	Shale Grit
EUD	SK 193818	Q129	Shatton	Hope Valley	Shale Grit
EUD	SK 216843	Q161	Bamford Moor	Bamford	Kinderscout Grit
EUD	SK 219841	Q24	Bole Hill 2	Bamford	Kinderscout Grit base
EUD	SK 223770	Q52	Eyam	Eyam	Shale Grit
EUD	SK 225777	Q175	Bretton	Eyam	Shale Grit
DON	SK 225998 +	Q158	Hagg Bridge	Upper Midhope	Rough Rock
EUD	SK 226792	Q20	Wet Wivens Eyam Moor	Bradwell	Kinderscout Grit lower
EUD	SK 226838	Q162	Bole Hill Wood Bamford	Bamford	Kinderscout Grit lower
HAL	SK 230925	Q33	Thornseats Delf	Bradfield (Strines)	Heyden Rock
LDR	SK 232684	Q12	Edge Q. Manners Wood	Bakewell	Astover Grit lower
HAL	SK 234901	Q130	Sugworth Delph	Bradfield	Rough Rock
EUD	SK 238770	Q176	Stoke Hall Goatscliff	Eyam	Shale Grit
LDR	SK 240620-250645	Q115	Stanton Moor	Stanton in Peak	Astover Grit
HPF	SK 249795 & 248805	Q88	Bole Hill & Millstone Edge	Hathersage	Chatsworth Grit
HAL	SK 255859	Q168	Lord's Seat	Sheffield Redmires Reservoir	Rough Rock
HAL	SK 258949	Q124	Loadfield	Eyden	Huddersfield White Rock
EUD	SK 259827	Q151	Cam Height	Hathersage	Rivlin Grit (Chatsworth Grit)
EUD	SK 261786	Q66	White Edge Hathersage	Nether Padley	Rough Rock
HAL	SK 270954	Q128	Rocher Bottom	Eyden	Huddersfield White Rock
HAL	SK 272853	Q67	Fulwood Booth	Fulwood	Rough Rock
LDR	SK 275661	Q78	Bond's Q	Rowsley	Chatsworth Grit
HAL	SK 275947	Q65	Spout House Hill	Bradfield	Rough Rock
HAL	SK 277838 ++	Q23	Brown Edge	Sheffield West	Rough Rock
HAL	SK 278849	Q166	Fulwood Head	Ringinglow	Rough Rock
LDR	SK 282659	Q80	Woodbrook Q	Rowsley	Chatsworth Grit
LDR	SK 283664	Q79	Wraggs Q	Rowsley	Chatsworth Grit
HAL	SK 284967	Q131	Town End Royd	Stockbridge	Lower coal measures
HAL	SK 286814	Q152	Houndkirk Moor	Ringinglow	Rivlin Grit (Chatsworth Grit)

Annex 2.2 Quarry locations listed by grid reference.

Sub area	Grid Reference	Quarry ref	Quarry name	Locality	Horizon
HAL	SK 287830	Q57	Hound Kirk Quarry	Ringslow	Rivlin Grit (Chatsworth Grit)
LDR	SK 295633	Q30	Tax Farm	Matlock	Chatsworth Grit
WFD	SK 295748 - 295758	Q22	Shillitoe Forest	Untham Ramsley Moor	Loxley Edge Rock
WFD	SK 296746	Q156	Bole Hill	Untham	Wingfield Flags main bed
LDR	SK 297627	Q110	Farley Moor	Matlock	Chatsworth Grit
WFD	SK 30_31	Q157	Old Totley	Sheffield	Greenmoor Rock
WFD	SK 305735	Q153	Slatepit Plantation	Freebitch	Wingfield Flags main bed top
LDR	SK 307627	Q93	Matlock Moor	Matlock	Chatsworth Grit
HAL	SK 309826	Q46	Wharlow & Whinell	Sheffield	Rough Rock
LDR	SK 310576 310573	Q31	White Tor	Matlock	Ashover Grit
LDR	SK 310645	Q82	Ashover	Rowsley	Chatsworth Grit
WFD	SK 310719	Q154	Puddingpie	Freebitch Chesterfield	Wingfield Flags mid bed
WFD	SK 310726	Q19	Freebitch	Baslow	Wingfield Flags top
LDR	SK 314611 ++	Q96	Bentleybrook 1 - 3	Matlock	Chatsworth Grit
LDR	SK 314663	Q81	Roach Wood	Rowsley	Chatsworth Grit
HAL	SK 315916	Q133	Worral	Sheffield NW	Loxley Edge Rock
LDR	SK 316613	Q94	Lunshill	Matlock	Chatsworth grit
LDR	SK 316641	Q83	Highkely	Rowsley	Chatsworth Grit
LDR	SK 318609	Q95	Lumsdale	Matlock	Chatsworth Grit
WFD	SK 320714	Q155	Riddings	Chesterfield	Wingfield Flags main bed
LDR	SK 325674	Q92	Hunger Hill	Holymoorside	Chatsworth Grit
WFD	SK 325768	Q45	Cartledge	Untham	Mickley thin coal, above
DCM	SK 327795	Q43 1&2	Mickley Farm	Dronfield	Mickley thin coal, above
LDR	SK 328590 eastwards	Q100	Cunner	Matlock Tansley	Chatsworth Grit
LDR	SK 330618	Q101	Old Engine Farm	Matlock Tansley	Chatsworth Grit
LDR	SK 333546	Q103	Duke's	Matlock Whatstandwell	Ashover Grit
LDR	SK 333629	Q2	Ambervale	Ashover	Ashover Grit
DCM	SK 334766 & 335763	Q47	Peakley Hill	Dronfield	Silkstone Rock
LDR	SK 336626	Q15	Dutton's	Matlock	Ashover Grit
LDR	SK 337605	Q16	Derbyshire Oaks	Matlock	Chatsworth Grit
LDR	SK 340624	Q56	Dutton's SE of	Matlock	Ashover Grit
WFD	SK 340673	Q107	Stone Edge Plantation	Walton	Crawshaw SS
WFD	SK 345678	Q26	Slatepit Dale	Walton	Wingfield Flags base

Annex 2.2 Quarry locations listed by grid reference.

Sub area	Grid Reference	Quarry ref	Quarry name	Locality	Horizon
UDR	SK 348 532	Q61	Crich	Cromford	
DCM	SK 360774	Q165	Hallowes	Dronfield	Silksstone Rock mid - low
DCM	SK 365732	Q126	Newbold	Chesterfield	Deep Hard coal, above
WFD	SK 368658	Q32	Redear Hill	Wingsworth	Wingfield Flags
WFD	SK 368661	Q28	Boldhill Wingsworth	Wingsworth	Wingfield Flags top
WFD	SK 370664	Q119	Alton	Ashover	Wingfield Flags
WFD	SK 371652	Q35	Press	Wingsworth S of Boldhill	Wingfield Flags
WFD	SK 375539	Q25	Coalburn	Wingfield South	Wingfield Flags base
WFD	SK 378619	Q121	Handley	Clay Cross	Wingfield Flags
DCM	SK 403709	Q120	Catow	Chesterfield	Mickley thin coal
DCM	SK 416670	Q34	Temple Normanton	Chesterfield	Top Hard coal, above
DCM	SK 419665	Q136	South End Grassmoor	Chesterfield Grassmoor	Dunsl coal, above
DCM	SK 423658	Q132	Highfields Williamthorpe	Chesterfield Holmwood	High Hazels coal, above
DCM	SK 436694	Q39	Sutton Lane	Sutton Scarsdale Bolsover	St John s, above
DCM	SK 437651 +	Q127	Outlane Holmwood	Chesterfield	High Hazels, coal above
DCM	SK 440640 & 436638	Q38	Astwith	Hardwick	Fl coal, above
DCM	SK 440668	Q122	Heath	Chesterfield	Top Hard coal, above
DCM	SK 440681	Q134	Wrang Plantation	Chesterfield Heath	Top Hard coal, above
DCM	SK 442678	Q135	Sheepwash	Chesterfield Heath	Top Hard coal, above
DCM	SK 447687	Q37	Sutton Scarsdale	Sutton Scarsdale Bolsover	High Hazel coal, above
DCM	SK 452618	Q139	Hurst	Tibshelf	Deep Soft coal, above
DCM	SK 454640	Q21	Hardwick Hall by the lake	Hardwick	Top Hard coal, above
DCM	SK 458653	Q123	Hodmire Lane Stansby	Hardwick	Top Hard coal, above
DCM	SK 462634	Q42	Hardwick Hall Below hall	Mansfield	High Hazels coal, above
DCM	SK 465528	Q148	Hardwick Hall to the east	Mansfield	High Hazels, coal, above
DCM	SK 471611	Q138	Frackley Tibshelf Rd	Stanton Hill Notts	Top Hard coal, above
PER	SK 483625	Q40	Hucklecroft	Teversal Notts	Permian
PER	SK 510778	Q41	Gipsy Hill	Whitwell	Permian
MAC	SK 953737	Q44	Brink, north of Teggs	Macesfield	Unnamed

## Annex 2.2 Quarry locations listed by grid reference.

Sub Area	Grid Reference	Quarry Ref	Quarry Name	Locality	Horizon
DCM	SK 423658	O132	Highfields	Chesterfield	High Hazels coal.
DCM	SK 462634	O42	Hardwick Hall Below	Mansfield	High Hazels coal.
DCM	SK 416670	O34	Temple Normanton	Chesterfield	Top Hard coal.
DCM	SK 447687	O37	Sutton Scarsdale	Sutton Scarsdale	High Hazel coal.
DCM	SK 452618	O139	Hurst	Tibshelf	Deep Soft coal.
DCM	SK 471611	O138	Frackley Tibshelf Rd	Stanton Hill Notts	Top Hard coal.
DCM	SK 419665	O136	South End Grassmoor	Chesterfield	Dunsil coal. above
DCM	SK 442678	O135	Sheepwash	Chesterfield Heath	Top Hard coal.
DCM	SK 454640	O21	Hardwick Hall by the	Hardwick	Top Hard coal.
DCM	SK 440681	O134	Wrang Plantation	Chesterfield Heath	Top Hard coal.
DCM	SK 465528	O148	Hardwick Hall to the	Mansfield	High Hazels. coal.
DCM	SK 360774	O165	Hallowes	Dronfield	Silkstone Rock mid
DCM	SK 334766 &	O47	Peakley Hill	Dronfield	Silkstone Rock
DCM	SK 437651 +	O127	Outlane Holmwood	Dronfield	High Hazels. coal
DCM	SK 365732	O126	Newbold	Chesterfield	Deep Hard coal.
DCM	SK 327795	O43.1&2	Micklev Farm	Dronfield	Micklev thin coal.
DCM	SK 458653	O123	Hodmire Lane Stainsby	Hardwick	Top Hard coal.
DCM	SK 440668	O122	Heath	Chesterfield	Top Hard coal.
DCM	SK 440640 &	O38	Astwith	Hardwick	Ell coal. above
DCM	SK 403709	O120	Calow	Chesterfield	Micklev thin coal
DCM	SK 436694	O39	Sutton Lane	Sutton Scarsdale	St John's. above
DON	SK 091037	O51	Holme Moss South of	Holmfirth	Huddersfield White
DON	SE 170031	O55	Tyas Quarry	Penistone	Rough Rock Flags
DON	SE 221018	O60	Hartcliff Hill	Penistone	Grenoside Rock
DON	SE 145040	O53	Harden Clough	Holmfirth	Rough Rock Flags
DON	SK 225998 +	O158	Hagg Bridge	Upper Midhope	Rough Rock
DON	SE 094120	O73	Meltham Cop	Meltham	Huddersfield White
DVS	SK 003623	O68	Five Clouds	Roaches	Five Clouds SS =
DVS	SK 059668	O69	Hollinsclough Rake	Hollinsclough	Five Clouds SS =
DVS	SK 023694	O171	Knotberry End	Wincle	Rough Rock
DVS	SK 105624	O160	Sheen Hill	Harrington	Sheen SS
DVS	SK 082652	O99	Daisy Knowl Lonanor	Buxton	Longnor SS
DVS	SK 026703 &	O17	Dane Head	Wincle	Rough Rock. Base
DVS	SK 015700	O18	Reeve Edge	Wincle	Rough Rock.
DVS	SK 012617	O76	Hen Clouds	Roaches	Roaches Rock

## Annex 2.3 Quarry locations listed by sub-area.

Sub Area	Grid Reference	Quarry Ref	Quarry Name	Locality	Horizon
DVS	SK 014701	O3	Dane Bower	Wincle	Rough Rock mid &
DVS	SK 019662	O98	Flash Bottom	Buxton	
EUD	SK 189803 &	O11	Abney Moor nr track	Bradwell	Shale Grit
EUD	SK 219841	O24	Bole Hill 2	Bamford	Kinderscout Grit
EUD	SK 152872	O125	Jagger's Clough	Edale	Shale Grit
EUD	SK 225777	O175	Bretton	Evam	Shale Grit
EUD	SK 238770	O176	Stoke Hall Goatscliff	Evam	Shale Grit
EUD	SK 223770	O52	Evam	Evam	Shale Grit
EUD	SK 119871	O150	Grindsbrook Clough	Edale	Shale Grit
EUD	SK 122876	O163	Nether Tor	Edale	Kinderscout Grit
EUD	SK 226838	O162	Bole Hill Wood	Bamford	Kinderscout Grit
EUD	SK 216843	O161	Bamford Moor	Bamford	Kinderscout Grit
EUD	SK 226792	O20	Wet Wivens Exam	Bradwell	Kinderscout Grit
EUD	SK 193818	O129	Shatton	Hope Valley	Shale Grit
EUD	SK 259827	O151	Cam Height	Hathersage	Rivilin Grit
EUD	SK 261786	O66	White Edge Hathersage	Nether Padley	Rough Rock
HAL	SK 272853	O67	Fulwood Booth	Fulwood	Rough Rock
HAL	SK 309826	O46	Whirlow & Whinfeil	Sheffield	Rough Rock
HAL	SK 287830	O57	Hound Kirk Quarry	Ringinglow	Rivilin Grit
HAL	SK 275947	O65	Spout House Hill	Bradfield	Rough Rock
HAL	SK 270954	O128	Rocher Bottom	Ewden	Huddersfield White
HAL	SK 278849	O166	Fulwood Head	Ringinglow	Rough Rock
HAL	SK 234901	O130	Sugworth Delbh	Bradfield	Rough Rock
HAL	SK 284967	O131	Town End Rovd	Stocksbridge	Lower coal
HAL	SK 315916	O133	Worral	Sheffield NW	Loxley Edge Rock
HAL	SK 258949	O124	Loadfield	Ewden	Huddersfield White
HAL	SK 230925	O33	Thornseats Delf	Bradfield (Strines)	Heyden Rock
HAL	SK 286814	O152	Houndkirk Moor	Ringinglow	Rivilin Grit
HAL	SK 277838 ++	O23	Brown Edge	Sheffield West	Rough Rock
HAL	SK 255859	O168	Lord's Seat	Sheffield Redmires	Rough Rock
HPF	SK 043926	O71	Moorfield West of	Glossop	Kinderscout Grit
HPF	SK 036915	O10	Chunal 1 & 2	Glossop	Rough Rock
HPF	SK 015928	O70	Slack Edge	Glossop	Rough Rock
HPF	SK 037843	O5	White Rakes	Chinley	Rough Rock
HPF	SK 045950	R75	Charles Lane	Glossop	Kinderscout Grit
HPF	SK 037835	O4	Cracken Edge	Chinley	Rough Rock
HPF	SK 024913	O77	Rock Farm	Glossop Nr Cown	Rough Rock
HPF	SK 015918	O6	Cown Edge	Glossop	Rough Rock
HPF	SK 031810	O14	Top Eccles Farm	Chapel en le Frith	Chatsworth Grit
HPF	SK 039933	O59	Whitfield	Glossop	Kinderscout Grit

## Annex 2.3 Quarry locations listed by sub-area.

Sub Area	Grid Reference	Quarry Ref	Quarry Name	Locality	Horizon
HPF	SK 058064	058	Glossop Low	Glossop	Kinderscout Grit
HPF	SK 027818	059	Buxworth Cris	Chapel on le Frith	Chatsworth Grit
HPF	SK 008927	054	Charlesworth	Glossop	Rough Rock
HPF	SK 021874	087	Sitch (Thornsettis)	New Mills	Woodhead Hill
HPF	SK 075998	049	Brock Holes	Woodhead Pass	Kinderscout Grit
HPF	SK 054945	086	Shirehill	Glossop	Kinderscout Grit
HPF	SK 018886 &	013	Rowarth	New Mills	Rough Rock
HPF	SK 028978	0105	Stonebrake quarries	Glossop Tintwistle	Kinderscout Grit
HPF	SK 049959	0149	Blackshaw Clough	Glossop	Kinderscout Grit
HPF	SK 046958	0140	Swineshaw reservoir	Glossop	Kinderscout Grit
HPF	SK 055745	0164	Corbar Woods	Buxton	Corbar Grit
HPF	SK 051830	0169	White Knowle	Chimley	Kinderscout Grit
HPF	SK 031925	0177	Lonsclough	Glossop	Kinderscout Grit
HPF	SK 044867 etc	0170	Havfield	Havfield	Kinderscout Grit
HPF	SK 030816	0172	Eccles Fold	Whalley Bridge	Chatsworth Grit
HPF	SK 050986 - 084998	0108	Woodhead Pass	Woodhead Pass	Kinderscout Grit
HPF	SK 082838	0173	Roach Tor	Chimley	Kinderscout Grit
HPF	SK 024975	0106	Cockerhill	Glossop Tintwistle	Kinderscout Grit
HPF	SK 026976	0104	Holybank	Glossop Tintwistle	Kinderscout Grit
HPF	SK 049842 - 052836	089	Lamb Inn 3 quarries	Chimley	Kinderscout Grit
HPF	SK 030869	090	Havfield	New Mills	Chatsworth grit
HPF	SK 022865 023866	091	Birch Vale 2 quarries	New Mills	Woodhead Hill
HPF	SK 249795 &	088	Bole Hill & Millstone	Hathersage	Chatsworth Grit
LDR	SK 240620-250645	0115	Stanton Moor	Stanton in Peak	Ashover Grit
LDR	SK 275661	078	Bond's O	Rowsley	Chatsworth Grit
LDR	SK 283664	079	Wragge's O	Rowsley	Chatsworth Grit
LDR	SK 340624	056	Dutton's SE of	Matlock	Ashover Grit
LDR	SK 297627	0110	Farley Moor	Matlock	Chatsworth Grit
LDR	SK 314663	081	Roach Wood	Rowsley	Chatsworth Grit
LDR	SK 310645	082	Ashover	Rowsley	Chatsworth Grit
LDR	SK 316641	083	Highkely	Rowsley	Chatsworth Grit
LDR	SK 232684	012	Edge O. Manners	Bakewell	Ashover Grit lower
LDR	SK 336626	015	Dutton's	Matlock	Ashover Grit
LDR	SK 337605	016	Derbyshire Oaks	Matlock	Chatsworth Grit
LDR	SK 310576 310573	031	White Tor	Matlock	Ashover Grit
LDR	SK 295633	030	Tax Farm	Matlock	Chatsworth Grit
LDR	SK 282659	080	Woodbrook O	Rowsley	Chatsworth Grit
LDR	SK 314611 ++	096	Bentleybrook 1 - 3	Matlock	Chatsworth Grit
LDR	SK 333629	02	Ambervale	Ashover	Ashover Grit
LDR	SK 333546	0103	Duke's	Matlock	Ashover Grit

## Annex 2.3 Quarry locations listed by sub-area.

Sub Area	Grid Reference	Quarry Ref	Quarry Name	Locality	Horizon
LDR	SK 330618	O101	Old Engine Farm	Matlock Tansley	Chatsworth Grit
LDR	SK 348 532	O61	Crich	Cromford	Chatsworth Grit
LDR	SK 325674	O92	Hunger Hill	Holymoorside	Chatsworth Grit
LDR	SK 307627	O93	Matlock Moor	Matlock	Chatsworth grit
LDR	SK 316613	O94	Lunshill	Matlock	Chatsworth Grit
LDR	SK 318609	O95	Lunsdale	Matlock	Chatsworth Grit
LDR	SK 328590 eastwards	O100	Cunner	Matlock Tansley	Rough Rock top
MAC	SK 013734	O1	Goytes Clough	Buxton	Rough Rock
MAC	SJ 955777	O84	Billinge	Bollington	Rough Rock
MAC	SJ 948725	O7	Teegs Nose	Macclesfield	Chatsworth Grit
MAC	SJ 937795	O97	Breck 2 quarries	Bollington	Un-named SS
MAC	SJ 995782	O27	Wineather Rocks	Kettleshulme	Chatsworth Grit
MAC	SJ 952815 +++	O62	Lyme Park	Disley Cheshire	
MAC	SJ 953801	O9	Bakestonedale Moor	Bollington	Milnrow SS
MAC	SK 953737	O44	Brink, north of Teggs	Macclesfield	Un-named
MAC	SJ 939763	O8/2	Macstone Kerridge	Macclesfield	Milnrow SS
MAC	SJ 943757	O8	Marksend Kerridge	Macclesfield	Milnrow SS
MAC	SJ 965765	O85	Wimberr Moss	Bollington	Holcombe Brook
PER	SK 510778	O41	Ginsy Hill	Whitwell	Permian
PER	SK 483625	O40	Huckcroft	Teversal Notts	Permian
SAD	SD 990018	O143	Buckton Moor	Mossley	Kinderscout Grit
SAD	SE 022060	O109	Upperwood House	Saddleworth Moor	
SAD	SD 996006	O144	Slate Pit Moor	Carrbrook Mossley	Kinderscout Grit
SAD	SE 018074 018077	O142	Broadstone & Running	Diegle Saddleworth	Kinderscout Grit
WFD	SK 296746	O156	Bole Hill	Unthank	Wingfield Flags
WFD	SK 340673	O107	Stone Edge Plantation	Walton	Crawshaw SS
WFD	SK 325768	O45	Cartledge	Unthank	Mickley thin coal.
WFD	SK 378619	O121	Handley	Clay Cross	Wingfield Flags
WFD	SK 370664	O119	Alton	Ashover	Wingfield Flags
WFD	SK 30 31	O157	Old Totley	Sheffield	Greenmoor Rock
WFD	SK 368661	O28	Bolchill Wingerworth	Wingerworth	Wingfield Flags
WFD	SK 310719	O154	Puddingpie	Freebitch	Wingfield Flags
WFD	SK 310726	O19	Freebitch	Baslow	Wingfield Flags
WFD	SK 305735	O153	Slatepit Plantation	Freebitch	Wingfield Flags
WFD	SK 368658	O32	Redcarr Hill	Wingerworth	Wingfield Flags
WFD	SK 295748 - 295758	O22	Shillitoe Forest	Unthank Ramsley	Loxley Edge Rock
WFD	SK 320714	O155	Riddings	Chesterfield	Wingfield Flags
WFD	SK 345678	O26	Slatepit Dale	Walton	Wingfield Flags
WFD	SK 371652	O35	Press	Wingerworth S of	Wingfield Flags
WFD	SK 375539	O25	Coalburn	Wingfield South	Wingfield Flags

## Annex 2.3 Quarry locations listed by sub-area.

Sub Area	Grid Reference	Quarry Ref	Quarry Name	Locality	Horizon
WHF	SE 155036	O174	Harden Edge	Holmfirth	Rough Rock Flags
WHF	SE 087092 ++	O145	Rovd Edge	Meltham	Huddersfield White
WHF	SE 089079	O72	Isle of Skve	Meltham	Huddersfield White
WHF	SE 035101	O111	Pule Hill	Marsden	
WHF	SE 129055 +	O113	Hillhouse Head	Holmfirth	
WHF	SE 131056	O114	Windridge	Holmfirth	
WHF	SE 055113	O141	Scout Wood	Marsden	Pule Grit
WHF	SE 040108	O112	Marsden	Marsden SW of	

### Annex 2.3 Quarry locations listed by sub-area.

Quarry name	Quarry	Substrate	Locality	Grid reference	Environmental	Sample ref	Farey?	Colour
Abbey Moor on track	Q11	LUD	Bradwell	SK 189803 & 181807	M&H	Abbey Moor	Yes	Buff
Bake stone-dub. Moor	Q9	MAC	Bullington	SI 953801	RIGS	Bake or Bam	Yes	White
Bamford Moor	Q161	EUD	Bamford	SK 216843	M&H	None	No	Brown
Bentleybrook 1 - 3	Q96	LDR	Matlock	SK 314611 ++	Operational	None	No	Brown
Bols Hill 2	Q24	EUD	Bamford	SK 219841	M&H	BAM 2	No	Buff
Bols Hill Wood	Q162	EUD	Bamford	SK 226838	M&H	BAM 1	No	Brown
Breck 2 quarries	Q97	MAC	Bollington	SI 937795	Industry + Nat. res.	None	No	Red brown
Brink, north of Teggs	Q44	MAC	Macclesfield	SK 953737	M&H	None	No	Brown
Broadstone &	Q142	SAD	Diggle Saddleworth	SE 018074 018077	M&H	None	No	Red brown
Brown Edge	Q23	HAL	Sheffield West	SK 277838 ++	M&H	BF 1 & 2	Yes	Buff
Buxworth Crst	Q29	HPF	Chapel en le Frith	SK 027818	Filled in. Asbestos?	None	Yes	Brown
Calow	Q120	DCM	Chesterfield	SK 403709	Hospital	None	Yes	Buff
Carlledge	Q45	WFD	Untham	SK 325768		HC	Yes	Gray
Charlesworth	Q54	HPF	Glossop	SK 008927		None	No	Brown
Chunal 1 & 2	Q10	HPF	Glossop	SK 036915		Chunal 1 & 2	Yes	Buff
Cockerhill	Q106	HPF	Glossop Tintwistle	SK 024975		None	No	Brown
Cown Edge	Q6	HPF	Glossop Charlesworth	SK 015918	M&H	CE	No	Buff
Cracken Edge	Q4	HPF	Chimley	SK 037835	RIGS M&H	CC	Yes	Buff
Dane Bower	Q3	DVS	Wincle	SK 014701	M&H	Dane	No	Buff
Dane Head	Q17	DVS	Wincle	SK 026703 & 028708	M&H	DH	Yes	Brown
Duke's	Q103	LDR	Matlock Whatstandwell	SK 333546		None	No	Buff brown
Eccles Fold	Q172	HPF	Whalley Bridge	SK 030816		EF	Yes	Salmon pink
Edge O. Manners	Q12	LDR	Bakewell	SK 232684	Rec.	Edge Q	Yes	Buff
Eyam	Q52	EUD	Eyam	SK 223770		Q 52	(Yes)	Buff
Freebitch	Q19	WFD	Baslow	SK 310726	M&H	Q19 19/2 19/3	Yes	Buff & gray
Fullwood Booth	Q67	HAL	Fullwood	SK 272853	Operating Club moss	RH	Yes	Buff
Fullwood Head	Q166	HAL	Ringinglow	SK 278849		None	Yes	Buff
Glossop Low	Q58	HPF	Glossop	SK 058964	M&H Historical	GL	Yes	Buff
Goytes Clough	Q1	MAC	Buxton	SK 013734	RIGS M&H Rec.	Goytes + Go Cl	Yes	Buff
Handley	Q121	WFD	Clay Cross	SK 378619		None	Yes	Buff
Harden Clough	Q53	DON	Holmfirth	SE 145040	M&H Rec.	Har 1 & 2	No	Buff
Harden Edge	Q174	WFF	Holmfirth	SE 155036	M&H	Q 174	No	Dark brown, buff
Hartcliff Hill	Q60	DON	Penistone	SK 221018	Rec.	Hart	Yes	Gray
Hollinsclough Rake	Q69	DVS	Hollinsclough	SK 059668		HCl	No	Buff
Holybank	Q104	HPF	Glossop Tintwistle	SK 026976	Operating	None	No	Brown
Hound Kirk Quarry	Q57	HAL	Ringinglow	SK 287830	M&H	HKM	No	Yellow
Houndkirk Moor	Q152	HAL	Ringinglow	SK 286814	M&H	Hkm	No	Salmon pink
Luckleeoff	Q40	PER	Tversal Notts	SK 483625		HC	No	Salmon pink

Annex 2.4 Quarries where slate or flagstone were recorded.

Quarry name	Quarry	Sub-area	Locality	Grid reference	Environmental	Sample ref	Fairy?	Colour
Jagger's Clough	Q125	EUD	Eddale	SK 152872	M&H	None	No	Red brown
Lanshill	Q94	LDR	Matlock	SK 316613		None	No	Brown
Lyme Park	Q62	MAC	Disley Cheshire	SJ 952815 +++	NT Park M&H	None	No	Gray & pale pink
Macclesfield	Q8/2	MAC	Macclesfield	SJ 939763	Operational	KMac	Yes	Buff & gray mica
Newbold	Q126	DCM	Chesterfield	SK 365732	Built over	None	No	
Peakley Hill	Q47	DCM	Dronfield	SK 334766 & 335763		PHH	No	Buff pale
Press	Q35	WFD	Wingerworth S of	SK 371652		Pr	No	Gray / Buff
Puddingie	Q154	WFD	Freeburch Chesterfield	SK 310719		None	Yes	
Pule Hill	Q111	WHF	Marsden	SF 035101		None	No	
Redkarr Hill	Q32	WFD	Wingerworth	SK 368658		BH2 W	No	Buff
Reeve Edge	Q18	DVS	Wincle	SK 015700	SSSI M&H	Q18 & Q18/2	No	Brown
Riddings	Q155	WFD	Chesterfield	SK 320714		None	No	
Rocher Bottom	Q128	HAL	Ewden	SK 270954	RIGS	None	No	Ochre
Rowarth	Q13	HPF	New Mills	SK 018886 & 023882	M&H Ferns	Rowarth	Yes	Buff
Shillote Forest	Q22	WFD	Unthank Ramsley Moor	SK 295748 - 295758		U	Yes	Yellow
Sitch (Thornsett)	Q87	HPF	New Mills	SK 021874		None	No	Brown
Slate Pit Moor	Q144	SAD	Carrbrook Mossley	SD 996006		None	No	
Slatepit Dale	Q26	WFD	Walton	SK 345678		SPD	Yes	Buff
Slatepit Plantation	Q153	WFD	Freeburch	SK 305735		None	Yes?	Gray & Brown
Spout House Hill	Q65	HAL	Bradfield	SK 275947	RIGS M&H	SIH	Yes	Buff
Stanton Moor	Q115	LDR	Stanton in Peak	SK 240620-250645	RIGS M&H Rec.	None	Yes	Buff & Yellow
Stonebrake quarries	Q105	HPF	Glossop Trinwistale	SK 028978	M&H Near RIGS	None	No	Brown Buff
Sutton Lane	Q39	DCM	Sutton Scarsdale	SK 436694		SC (N)	Yes	Gray + Buff
Sutton Scarsdale	Q37	DCM	Sutton Scarsdale	SK 447687	In village	SC (S)	Yes	Brown
Teggs Nose	Q7	MAC	Macclesfield	SJ 948725	Country park Rec.	Teggs	Yes	Pink
Thornsett's Delf	Q33	HAL	Bradfield (Strines)	SK 230925	M&H	Th	Yes	Buff & cream
Top Eccles Farm	Q14	HPF	Chapel en le Frith	SK 031810		Eccles	No	Brown - pink
Town End Royd	Q131	HAL	Stocksbridge	SK 284967		None	No	
Tyas Quarry	Q55	DON	Penistone Dunford	SE 170031		DBr	No	Buff
Wet Wivens Eyam	Q20	EUD	Bradwell	SK 226792	M&H Ancient mnts	WW	Yes	Brown
Whirlow & Whinell	Q46	HAL	Sheffield	SK 309826	Rec. & park	WR	No	Gray Buff
White Edge	Q66	EUD	Nether Padley	SK 261786	NT	WEd	Yes	Buff
White Knowle	Q169	HPF	Chunley	SK 051830		None	Yes	
White Rakes	Q5	HPF	Chunley	SK 037843	RIGS M&H	WR	Yes	Pink
White Tor	Q31	LDR	Matlock	SK 310576 310573		WT	Yes	Gray
Whitfield	Q59	HPF	Glossop	SK 039933		WFG	Yes	Gray
Wimberry Moss	Q85	MAC	Bollington	SJ 965765	Operational	None	No	Pink
Wingathor Rocks	Q27	MAC	Kentlesholme	SJ 995782	M&H	Rec	No	White yellow

## Annex 2.4 Quarries where slate or flagstone were recorded.

Quarry name	Quarry ref	Locality	Grid reference	Horizon	Environmental	Sample reference	Colour
Money Moor in track	Q11	Bradwell	SK 189803 & 181807	Shale Grit	M&H	Abney Moor	Buff
Bakewell Dale Moor	Q9	Bolton	SK 955801	Milnrow SS	RUGS	Bake or Bsm	White
Bak Hill	Q156	Unthank	SK 296746	Wingfield Flags main bed		None	
Brown Edge	Q23	Sheffield West	SK 277838 ++	Rough Rock	M&H	BE 1 & 2	Buff
Brayworth Crst	Q29	Chapel en le Frith	SK 027818	Chatsworth Grit	Filled in. Asbestos?	None	Brown
Calow	Q120	Chesterfield	SK 403709	Micklethay thin coal	Hospital	None	Buff
Cam Height	Q151	Hathersage	SK 259827	Rivlin Grit (Chatsworth Grit)	M&H Rec.	None	
Cartledge	Q45	Unthank	SK 325768	Micklethay thin coal, above		HFc	Gray
Charles Lane	R75	Glossop	SK 045950	Kinderscout Grit	Rec.	Charles Lane	Gray
Chunal 1 & 2	Q10	Glossop	SK 036915	Kinderscout Grit upper		Chunal 1 & 2	Buff
Coalburn	Q25	Wingfield South	SK 375539	Wingfield Flags base		COL	Buff
Cracken Edge	Q4	Chinley	SK 037835	Rough Rock Flags	RUGS M&H	CC	Buff
Daisy Knowl Longnor	Q99	Buxton	SK 082652	Longnor SS		None	
Dane Head	Q17	Wincle	SK 026703 & 028708	Rough Rock. Base	M&H	DH	Brown
Eccles Fold	Q172	Whalley Bridge	SK 030816	Chatsworth Grit		EF	Salmon pink
Edge Q. Manners Wood	Q12	Bakewell	SK 232684	Ashover Grit lower	Rec.	Edge Q.	Buff
Flash Bottom	Q98	Buxton	SK 019662			None	
Freebitch	Q19	Baslow	SK 310726	Wingfield Flags top	M&H	Q19 19/2 19/3	Buff & gray
Fulwood Booth	Q67	Fulwood	SK 272853	Rough Rock	Operating Club moss	RHI	Buff
Fulwood Head	Q166	Ringinglow	SK 278849	Rough Rock		None	
Glossop Low	Q58	Glossop	SK 058964	Kinderscout Grit	M&H Historical	Cl L	Buff
Goytes Clough	Q1	Buxton	SK 013734	Rough Rock top	RUGS M&H Rec.	Goytes + Go Cl	Buff
Hallows	Q165	Dronfield	SK 360774	Silstone Rock mid - low	Built over	None	
Handley	Q121	Clay Cross	SK 378619	Wingfield Flags		None	
Hartcliff Hill	Q60	Penstone	SE 221018	Grenoside Rock	Rec.	Hart	Gray

## Annex 2.5 Quarries corresponding with Farey's list

Quarry name	Quarry ref	Locality	Grid reference	Horizon	Environmental	Sample reference	Colour
Hayfield	Q170	Hayfield	SK 044867 etc	Kinderscout Grit lower		None	
Lamb Inn Quarries	Q89	Chinley	SK 049842 - 052836	Kinderscout Grit top		None	Buff Brown
Longclough	Q177	Glossop	SK 031925		Nat. res.	None	
Mastone Kerridge	Q8/2	Macclesfield	SJ 939763	Milnrow SS	Operational	KMac	Buff & gray mica
Marksend Kerridge	Q8	Macclesfield	SJ 943757	Milnrow SS	Operational	None	Buff
Paddingue	Q154	Freebirch Chesterfield	SK 310719	Wingfield Flags mid bed		None	
Rowarth	Q13	Freebirch New Mills	SK 018886 & 023882	Rough Rock	M&H Ferns	Rowarth	Buff
Shillitoe Forest	Q22	Unthank Ramsley Moor	SK 295748 - 295758	Loxley Edge Rock		U	Yellow
Slatepit Dale	Q26	Walton	SK 345678	Wingfield Flags base		SPD	Buff
Slatepit Plantation	Q153	Freebirch	SK 305735	Wingfield Flags main bed top		None	Gray & Brown
Spout House Hill	Q65	Bradfield	SK 275947	Rough Rock	RUGS M&H	SHH	Buff
Stoke Hall Goatscliff	Q176	Eyarn	SK 238770	Shale Grit		None	Yellow, buff
Sutton Lane	Q39	Sutton Scarsdale Bolsover	SK 436694	St. John s. above		SC (N)	Gray + Buff
Sutton Scarsdale	Q37	Sutton Scarsdale Bolsover	SK 447687	High Hazel coal. above	In village	SC (S)	Brown
Teggs Nose	Q7	Macclesfield	SJ 948725	Chatsworth Grit	Country park Rec.	Teggs	Pink
Thornsats Delf	Q33	Bradfield (Strines)	SK 230925	Heyden Rock	M&H	Th	Buff & cream
Wet Wivens Eyam Moor	Q20	Bradwell	SK 226792	Kinderscout Grit lower	M&H Ancient mnts	WW	Brown
White Edge Hathersage	Q66	Nether Padley	SK 261786	Rough Rock	NJ	WEd	Buff
White Knowle	Q169	Chinley	SK 051830	Kinderscout Grit base		None	
White Rakes	Q5	Chinley	SK 037843	Rough Rock Flags	RUGS M&H	WR	Pink
White Tor	Q31	Matlock	SK 310576 310573	Ashover Grit		WT	Gray
Whitfield	Q59	Glossop	SK 039933	Kinderscout Grit		WFG	Gray

Annex 2.5 Quarries corresponding with Farey's list

Quarry	Quarry name	Sub	Locality	Grid reference	Horizon	Environmental	Sample reference	Farey?	Slate	Flagstone	Colour
Q1	Coates Clough	MAC	Buxton	SK 013734	Rough Rock top	RIGS M&H Rec.	Goytes + Go Cl	Yes	Yes	Yes	Buff
Q2	Amblevale	LDR	Ashover	SK 333629	Ashover Grit	Filled in.	None	No	No	No/Unknown	
Q3	Dane Bower	DVS	Wincle	SK 014701	Rough Rock mid & top	M&H	Dane	No	Yes	Yes	Buff
Q4	Cracken Edge	HPF	Chimley	SK 037835	Rough Rock Flags	RIGS M&H	CC	Yes	Yes	Yes	Buff
Q5	White Rakes	HPF	Chimley	SK 037843	Rough Rock Flags	RIGS M&H	WR	Yes	Yes	Yes	Pink
Q6	Cown Edge	HPF	Glossop Charlesworth	SK 015918	Rough Rock	M&H	CE	No	Yes	Yes	Buff
Q7	Teggs Nose	MAC	Macclesfield	SI 948725	Chatsworth Grit	Country park Rec.	Teggs	Yes	Yes	Yes	Pink
Q8	Marksend Kerridge	MAC	Macclesfield	SI 943757	Milnrow SS	Operational	None	Yes	No	No/Unknown	Buff
Q8/2	Macstone Kerridge	MAC	Macclesfield	SI 939763	Milnrow SS	Operational	KMac	Yes	Yes	Yes	Buff & gray mica
Q9	Bakestonedale Moor	MAC	Bollington	SI 953801	Milnrow SS	RIGS	Bake or Bsm	Yes	Yes	Yes	White
Q10	Chunual 1 & 2	HPF	Glossop	SK 036915	Kinderscout Grit upper		Chunual 1 & 2	Yes	Yes	Yes	Buff
Q11	Abney Moor nr track	EUD	Bradwell	SK 189803 & 181807	Shale Grit	M&H	Abney Moor	Yes	Yes	Yes	Buff
Q12	Edge Q. Manners Wood	LDR	Bakewell	SK 232684	Ashover Grit lower	Rec.	Edge Q	Yes	Yes	Yes	Buff
Q13	Rowarth	HPF	New Mills	SK 018886 & 023882	Rough Rock	M&H Ferns	Rowarth	Yes	Yes	Yes	Buff
Q14	Top Eccles Farm	HPF	Chapel en le Frith	SK 031810	Chatsworth Grit		Eccles	No	Yes	Yes	Brown + pink
Q15	Dutton's	LDR	Matlock	SK 336626	Ashover Grit	Rec.	None	No	No	Yes	Brown
Q16	Derbyshire Oaks	LDR	Matlock	SK 337605	Chatsworth Grit		None	No	No	No/Unknown	Buff
Q17	Dane Head	DVS	Wincle	SK 026703 & 028708	Rough Rock. Base	M&H	DH	Yes	Yes	Yes	Brown
Q18	Reeve Edge	DVS	Wincle	SK 015700	Rough Rock. Middle	SSSI M&H	Q18 & Q18/2	No	Yes	Yes	Brown
Q19	Freebireh	WFD	Baslow	SK 310726	Wingfield Flags top	?M&H	Q19 19/2 19/3	Yes	Yes	Yes	Buff & gray
Q20	Wet Wivens Eyam Moor	EUD	Bradwell	SK 226792	Kinderscout Grit lower	M&H Ancient mnts	WW	Yes	Yes	Yes	Brown
Q21	Hardwick Hall by the lake	DCM	Hardwick	SK 454640	Top Hard coal, above	NT	None	No	No	No/Unknown	Buff
Q22	Shillitoe Forest	WFD	Untham Ramsley Moor	SK 295748 - 295758	Loxley Edge Rock		U	Yes	Yes	Yes	Yellow
Q23	Brown Edge	HAL	Sheffield West	SK 277838 ++	Rough Rock	M&H	BE 1 & 2	Yes	Yes	Yes	Buff
Q24	Bole Hill 2	EUD	Barnford	SK 219841	Kinderscout Grit base		BAM 2	No	Yes	Yes	Buff
Q25	Coalburn	WFD	Wingfield South	SK 375539	Wingfield Flags base		COL	Yes	Unknown	Yes	Buff
Q26	Slatepit Dale	WFD	Walton	SK 345678	Wingfield Flags base		SPD	Yes	Yes	Yes	Buff
Q27	Wingather Rocks	MAC	Kettleshulme	SI 995782	Chatsworth Grit base	M&H	Rec	No	Yes	Yes	White yellow
Q28	Bolehill Wingerworth	WFD	Wingerworth	SK 368661	Wingfield Flags top		BH2	No	No	Yes	Buff
Q29	Buxworth Crist	HPF	Chapel en le Frith	SK 027818	Chatsworth Grit	Filled in. Asbestos?	None	Yes	Yes	Yes	Brown
Q30	Tax Farm	LDR	Matlock	SK 295633	Chatsworth Grit		None	No	No	Yes	Brown
Q31	White Tor	LDR	Matlock	SK 310576 310573	Ashover Grit		WT	Yes	Yes	Yes	Gray
Q32	Redcarr Hill	WFD	Wingerworth	SK 368658	Wingfield Flags		BH2 W	No	Yes	Yes	Buff
Q33	Thornscats Dell	HAL	Bradfield (Stirnes)	SK 230925	Heyden Rock	M&H	Th	Yes	Yes	Yes	Buff & cream

## Annex 2.6 The complete quarries database.

Quarry	Quarry name	Sub	Locality	Grid reference	Horizon	Environmental	Sample reference	Farey?	Slate	Flagstone	Colour
Q14	Temple Normanston	DCM	Chesterfield	SK 416670	Top Hard coal, above		TN	No	Unknown	Yes	Buff
Q15	Prews	WFD	Wingerworth S of Baldhill	SK 371652	Wingfield Flags		Pr	No	Yes	Yes	Gray / Buff
Q17	Sutton Scarsdale	DCM	Sutton Scarsdale Bolsover	SK 447687	High Hazel coal, above	In village	SC (S)	Yes	Yes	No/Unknown	Brown
Q18	Aswith	DCM	Hardwick	SK 440640 & 436638	Eil coal, above		AST	No	No	Yes	Buff
Q19	Sutton Lane	DCM	Sutton Scarsdale Bolsover	SK 436694	St John's, above		SC (N)	Yes	Yes	Yes	Gray + Buff
Q40	Hucknall	PER	Teversal Notts	SK 483625	Permian		HC	No	Yes	Yes	Salmon pink
Q41	Gipsy Hill	PER	Whitwell	SK 510778	Permian		None	No	Unknown	No/Unknown	Buff
Q42	Hardwick Hall Below hall	DCM	Mansfield	SK 462634	High Hazels coal, above	NT	HH	No	No	No/Unknown	Buff
Q43 1&2	Mickley Farm	DCM	Dronfield	SK 327795	Mickley thin coal, above		MF1 & 2	No	No	Yes	Gray
Q44	Brink, north of Leggs	MAC	Macclesfield	SK 953737	Unnamed		None	No	Yes	Yes	Red brown
Q45	Cartledge	WFD	Untham	SK 325768	Mickley thin coal, above		HFc	Yes	Yes	Yes	Gray
Q46	Whirlow & Whinfall	HAL	Sheffield	SK 309826	Rough Rock	Rec. & park	WR	No	Yes	Yes	Gray Buff
Q47	Peakley Hill	DCM	Dronfield	SK 334766 & 335763	Silkstone Rock		PHH	No	Yes	Yes	Buff pale
Q49	Brook Holes	HPF	Woodhead Pass	SK 075998	Kinder Scout middle		Br H	No	No	No/Unknown	Buff
Q51	Holme Moss South of mast	DON	Holmfirth	SK 091037	Huddersfield White rock	M&H	H Moss	No	No	No/Unknown	Buff
Q52	Eyam	EUD	Eyam	SK 223770	Shale Grit		Q 52	(Yes)	Yes	Yes	Buff
Q53	Hardan Clough	DON	Holmfirth	SE 145040	Rough Rock Flags	M&H Rec.	Har 1 & 2	No	Yes	Yes	Buff
Q54	Charlesworth	HPF	Glossop	SK 008927	Rough Rock		None	No	Yes	Yes	Buff
Q55	Tyas Quarry	DON	Penistone Dunford Bridge	SE 170031	Rough Rock Flags		DBr	No	Yes	Yes	Buff
Q56	Dutton s SE of	LDR	Matlock	SK 340624	Ashover Grit		None	No	No	No/Unknown	Buff
Q57	Hound Kirk Quarry	HAL	Ringinglow	SK 287830	Rivulin Grit (Chats Grit)	Operating	HKM	No	Yes	Yes	Yellow
Q58	Glossop Low	HPF	Glossop	SK 058964	Kinderscout Grit	M&H Historical	GH L	Yes	Yes	Yes	Buff
Q59	Whitfield	HPF	Glossop	SK 039933	Kinderscout Grit		Wf G	Yes	Yes	Yes	Gray
Q60	Hartcliff Hill	DON	Penistone	SE 221018	Grenoside Rock	Rec.	Hart	Yes	Yes	Yes	Gray
Q61	Crich	LDR	Cromford	SK 348 532			None	No	No	No/Unknown	
Q62	Lyme Park	MAC	Disley Cheshire	SI 952815 ++		NT Park M&H	None	No	Yes?	Yes	Gray & pale pink
Q65	Spout House Hill	HAL	Bradfield	SK 275947	Rough Rock	RIGS M&H	SHH	Yes	Yes	Yes	Buff
Q66	White Edge Hathersage	EUD	Nether Padley	SK 261786	Rough Rock	NT	WE d	Yes	Yes	Yes	Buff
Q67	Fulwood Booth	HAL	Fulwood	SK 272853	Rough Rock	Operating Club moss	RHI	Yes	Yes	Yes	Buff
Q68	Five Clouds	DVS	Roaches	SK 003623	Five Clouds SS = Corbar Grit	RIGS SSSI Rec.	FCI	No	No	No/Unknown	Pink
Q69	Hollinsclough Rake	DVS	Hollinsclough	SK 059668	Five Clouds SS = Corbar Grit		HCI	No	Yes	No/Unknown	Buff
Q70	Shack Edge	HPF	Glossop Charlesworth	SK 015928	Rough Rock		None	No	Unknown	No/Unknown	

## Annex 2.6 The complete quarries database.

Quarry	Quarry name	Sub	Locality	Grid reference	Horizon	Environmental	Sample reference	Farey?	Slate	Flagstone	Colour
Q71	Moorfield, West of	HPF	Glossop	SK 043926			MFD	No	No	No/Unknown	Buff
Q72	Isle of Skye	WHF	Melfham	SF 089079	Huddersfield White Rock	M&H	IoS	No	No	No/Unknown	Buff
Q73	Melfham Cop	DON	Melfham	SE 094120	Huddersfield White Rock?		None	No	No	No/Unknown	
R75	Charles Lane	HPF	Glossop	SK 045950	Kinderscote Grit	Rec	Charles Lane	Yes	No	Yes	Gray
Q76	Ilen Clouds	DVS	Roaches	SK 012617	Roaches Rock	RIGS SSSI	None	No	No	No/Unknown	
Q77	Rock Farm	HPF	Glossop Nr Cown Edge	SK 024913			None	No	Unknown	No/Unknown	
Q78	Bond's Q	LDR	Rowsley	SK 275661	Chatsworth Grit	M&H	None	No	No	No/Unknown	
Q79	Wraggs Q	LDR	Rowsley	SK 283664	Chatsworth Grit	M&H Active	None	No	No	No/Unknown	
Q80	Woodbrook Q	LDR	Rowsley	SK 282659	Chatsworth Grit		None	No	No	No/Unknown	
Q81	Roach Wood	LDR	Rowsley	SK 314663	Chatsworth Grit		None	No	No	No/Unknown	
Q82	Ashover	LDR	Rowsley	SK 310645	Chatsworth Grit		None	No	No	No/Unknown	
Q83	Hrighliley	LDR	Rowsley	SK 316641	Chatsworth Grit		None	No	No	No/Unknown	
Q84	Billinge	MAC	Bollington	SJ 955777	Rough Rock		None	No	No	No/Unknown	
Q85	Wimberry Moss	MAC	Bollington	SJ 965765	Holcombe Brook Grit	Operational	None	No	Unknown	No/Unknown	Pink
Q86	Shurehill	HPF	Glossop	SK 054945	Kinderscote Grit	Operational	None	No	Yes	No/Unknown	Buff
Q87	Sitch (Thornsetts)	HPF	New Mills	SK 021874	Woodhead Hill Rock		None	No	Yes	Yes	Brown
Q88	Bole Hill & Millstone Edge	HPF	Hathersage	SK 249795 & 248805	Chatsworth Grit	RIGS NT	None	No	No	No/Unknown	Brown
Q89	Lamb Inn 3 quarries	HPF	Chimley	SK 049842 - 052836	Kinderscote Grit top		None	Yes	Unknown	No/Unknown	Buff Brown
Q90	Hayfield	HPF	New Mills	SK 030869	Chatsworth grit		None	No	No	No/Unknown	Light buff
Q91	Birch Vale 2 quarries	HPF	New Mills	SK 022865 023866	Woodhead Hill Rock	Operational	None	No	No	No/Unknown	
Q92	Hunger Hill	LDR	Holymoorside	SK 325674	Chatsworth Grit	Operational	None	No	No	No/Unknown	
Q93	Matlock Moor	LDR	Matlock	SK 307627	Chatsworth Grit		None	No	Unknown	No/Unknown	
Q94	Lumshill	LDR	Matlock	SK 316613	Chatsworth grit		None	No	Yes	Yes	Brown
Q95	Lumsdale	LDR	Matlock	SK 318609	Chatsworth Grit		None	No	Unknown	Yes	Brown
Q96	Bentleybrook 1 - 3	LDR	Matlock	SK 314611 ++	Chatsworth Grit		None	No	Yes	Yes	Brown
Q97	Breck 2 quarries	MAC	Bollington	SJ 937795	Un-named SS	Operational	None	No	Yes	Yes	Brown
Q98	Flash Bottom	DVS	Buxton	SK 019662		Industry + Nat. res.	None	No	Yes	Yes	Brown
Q99	Daisy Knowl Longnor	DVS	Buxton	SK 082652	Longnor SS		None	Yes	Unknown	No/Unknown	
Q100	Cunner	LDR	Matlock Tansley	SK 328590 eastwards	Chatsworth Grit	?Nat. res.	None	Yes	Unknown	No/Unknown	
Q101	Old Engine Farm	LDR	Matlock Tansley	SK 330618	Chatsworth Grit		None	No	No	No/Unknown	Brown
Q103	Duke's	LDR	Matlock Whatstandwell	SK 333546	Ashover Grit		None	No	Yes	Yes	Buff brown
Q104	Holybank	HPF	Glossop Tintwistle	SK 026976	Kinderscote Grit		None	No	Yes	Yes	Brown

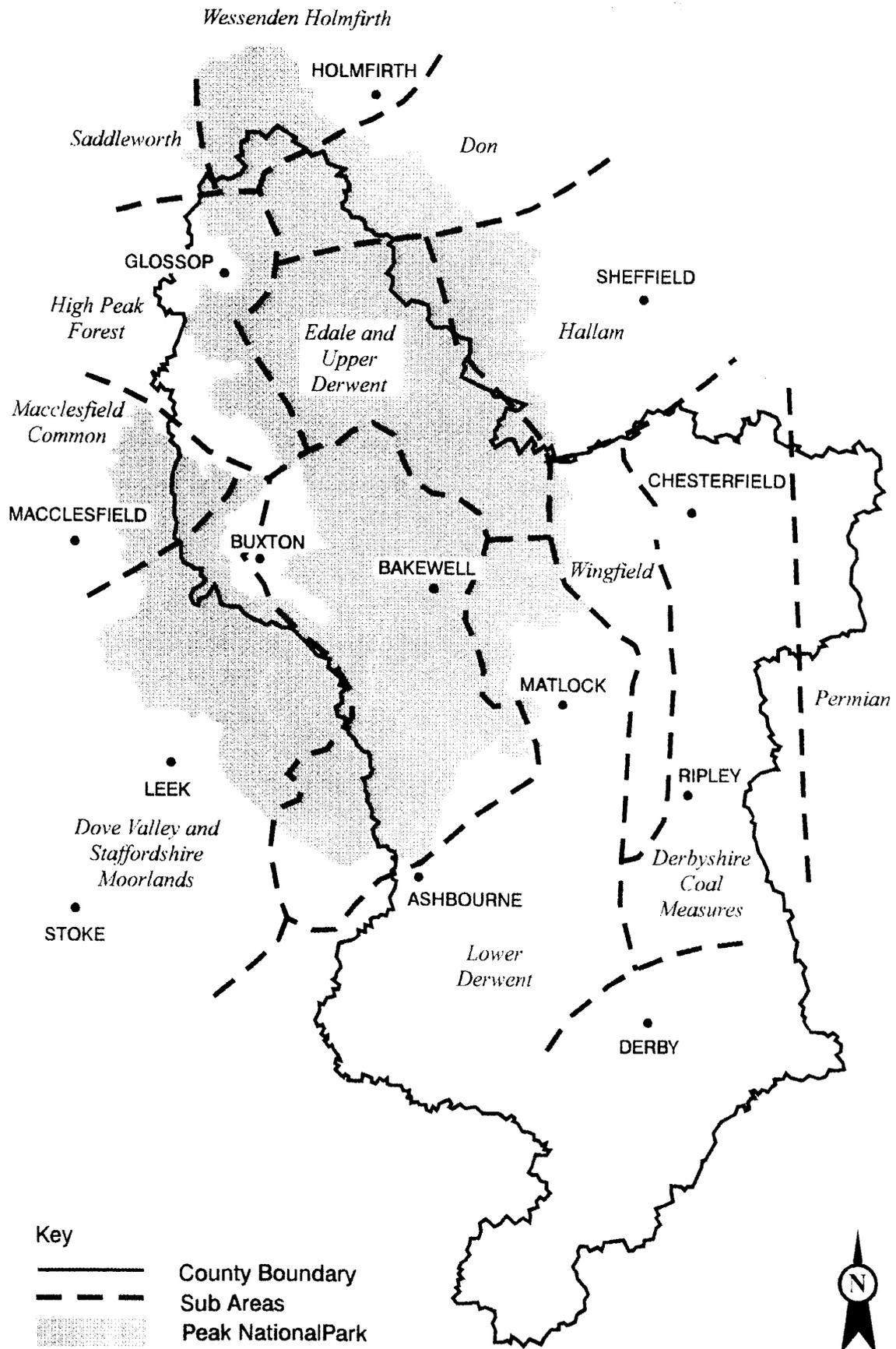
## Annex 2.6 The complete quarries database.

Quarry	Quarry name	Sub	Locality	Grid reference	Horizon	Environmental	Sample reference	Farey?	Slate	Flagstone	Colour
Q105	Stonchake quarries	HPF	Glossop Timtwistle	SK 028978	Kinderscout Grit	M&H Near RIGS	None	No	Yes	Yes	Brown Buff
Q106	Cockehill	HPF	Glossop Timtwistle	SK 024975	Kinderscout Grit		None	No	Yes	Yes	Brown
Q107	Stone Edge Plantation	WFD	Walton	SK 340673	Crawshaw SS	Rec.	None	No	No	No/Unknown	Red brown
Q108	Woodhead Pass	HPF	Woodhead Pass	SK 050986 - 084998	Kinderscout Grit, lower		None	No	No	No/Unknown	Red Brown
Q109	Upperwood House	SAD	Saddleworth Moor	SE 022060		M&H	None	No	No	No/Unknown	Brown
Q110	Farley Moor	LDR	Matlock	SK 297627	Chatsworth Grit		None	No	No	Yes	Brown
Q111	Pule Hill	WHF	Marsden	SE 035101			None	No	Yes	Yes	
Q112	Marsden	WHF	Marsden SW of village	SE 040108			None	No	Unknown	No/Unknown	
Q113	Hillhouse Head	WHF	Holmfirth	SE 129055 +			None	No	No	No/Unknown	Buff
Q114	Windyridge	WHF	Holmfirth	SE 131056			None	No	No	No/Unknown	Buff
Q115	Stanton Moor	LDR	Stanton in Peak	SK 240620-250645		RIGS M&H Rec.	None	No	Yes	Yes	Buff & Yellow
Q119	Alton	WFD	Ashover	SK 370664	Ashover Grit		None	No	No	Yes	Buff
Q120	Calow	DCM	Chesterfield	SK 403709	Wingfield Flags	Hospital	None	Yes	Yes	Yes	Buff
Q121	Handley	WFD	Clay Cross	SK 378619	Muckley thin coal		None	Yes	Yes?	Yes	
Q122	Heath	DCM	Chesterfield	SK 440668	Top Hard coal, above		None	No	Unknown	No/Unknown	
Q123	Hodmire Lane Stainsby	DCM	Hardwick	SK 458653	Top Hard coal, above		None	No	Unknown	No/Unknown	
Q124	Loadfield	HAL	Ewden	SK 258949	Huddersfield White Rock	RIGS M&H	Q 124	No	No	Yes	
Q125	Jagger's Clough	EUD	Edale	SK 152872	Shale Grit	M&H	None	No	Unknown	Yes	Red brown
Q126	Newbold	DCM	Chesterfield	SK 365732	Deep Hard coal, above	Built over	None	No	Yes?	Yes	
Q127	Outlane Holmwood	DCM	Chesterfield	SK 437651 +	High Hazels, coal above	Opencast & covered	None	No	Unknown	No/Unknown	
Q128	Rocher Bottom	HAL	Ewden	SK 270954	Huddersfield White Rock	RIGS	None	No	Yes	Yes	Ochre
Q129	Shatton	EUD	Hope Valley	SK 193818	Shale Grit	M&H	None	No	Unknown	No/Unknown	
Q130	Sugworth Dalph	HAL	Bradfield	SK 234901	Rough Rock	M&H	None	No	Yes	Yes	
Q131	Town End Royd	HAL	Stocksbridge	SK 284967	Lower coal measures		None	No	No	No/Unknown	
Q132	Highfields Williamthorpe	DCM	Chesterfield Holmwood	SK 423658	High Hazels coal, above	Opencast & covered	None	No	Unknown	No/Unknown	
Q133	Worral	HAL	Sheffield NW	SK 315916	Loxley Edge Rock	Filled in	None	No	No	Yes	
Q134	Wrang Plantation	DCM	Chesterfield Heath	SK 440681	Top Hard coal, above		None	No	No	No/Unknown	
Q135	Sheepwash	DCM	Chesterfield Heath	SK 442678	Top Hard coal, above		None	No	Unknown	No/Unknown	
Q136	South End Grassmoor	DCM	Chesterfield Grassmoor	SK 419665	Dunsil coal, above		None	No	Unknown	Yes	
Q138	Frackley Tibshelf Rd	DCM	Stanton Hill Notts	SK 471611	Top Hard coal, above		None	No	No	Yes	
Q139	Hurst	DCM	Tibshelf	SK 452618	Deep Soft coal, above		None	No	Unknown	No/Unknown	
Q140	Swineshaw reservoir	HPF	Glossop	SK 046958	Kinderscout Grit	M&H	None	No	No?	Yes	

## Annex 2.6 The complete quarries database.

Quarry	Quarry name	Sub	Locality	Grid reference	Horizon	Environmental	Sample reference	Farey?	Slate	Flagstone	Colour
Q141	Scout Wood	WHF	Marsden	SE 055113	Pule Grit		None	No	No?	Yes	
Q142	Broadsone & Running Hill	SAD	Driggle Saddleworth Moor	SE 018074 018077	Kinderscout Grit	M&H	None	No	Yes	Yes	
Q143	Buckton Moor	SAD	Mossley	SD 990018	Kinderscout Grit	Operational	None	No	No	No/Unknown	
Q144	Slate Pit Moor	SAD	Carrbrook Mossley	SD 996006	Kinderscout Grit		None	No	Yes	Yes	
Q145	Royal Idges	WHF	Meltham	SE 087092 ++	Huddersfield White Rock		None	No	No	Yes	
Q148	Hardwick Hall to the east	DCM	Mansfield	SK 465528	High Hazels coal, above	NT	None	No	Unknown	No/Unknown	
Q149	Blackshaw Clough	HPF	Glossop	SK 049959	Kinderscout Grit	M&H	None	No	No	No/Unknown	
Q150	Grindbrook Clough	EUD	Edale	SK 119871	Shale Grit	Nt RIGS Rec.	None	No	Unknown	No/Unknown	
Q151	Cam Height	EUD	Hathersage	SK 259827	Rivlin Grit (Chatsworth Grit)	M&H Rec.	None	Yes	No?	No/Unknown	
Q152	Houndkirk Moor	HAL	Ringinglow	SK 286814	Rivlin Grit (Chatsworth Grit)	M&H	HKm	No	Yes	Yes	
Q153	Slatepit Plantation	WFD	Freebirch	SK 305735	Wingfield Flags main bed top		None	Yes?	Yes	Yes	Gray & Brown
Q154	Puddingpie	WFD	Freebirch Chesterfield	SK 310719	Wingfield Flags mid bed		None	Yes	Yes?	Yes	
Q155	Riddings	WFD	Chessterfield	SK 320714	Wingfield Flags main bed		None	No	Yes	Yes	
Q156	Bole Hill	WFD	Unthank	SK 296746	Wingfield Flags main bed		None	No	Unknown	No/Unknown	
Q157	Old Totley	WFD	Sheffield	SK 30 31	Wingfield Flags main bed	Green Belt	None	No	Unknown	Unknown	
Q158	Hagg Bridge	DON	Upper Midhope	SK 225998 +	Greenmoor Rock		None	No	Unknown	Unknown	
Q160	Bamford Moor	DVS	Hartington	SK 105624	Rough Rock		None	No	Unknown	Unknown	
Q161	Bamford Moor	EUD	Bamford	SK 216843	Kinderscout Grit	M&H	None	No	Yes	Yes	
Q162	Bole Hill Wood Bamford	EUD	Bamford	SK 226838	Kinderscout Grit lower	M&H	BAM 1	No	Yes	Yes	
Q163	Nether Tor	EUD	Edale	SK 122876	Kinderscout Grit lower	Near RIGS	None	No	No	No/Unknown	Pink
Q164	Corbar Woods	HPF	Buxton	SK 055745	Corbar Grit		None	No	No	Yes	
Q165	Hallowes	DCM	Dronfield	SK 360774	Silkestone Rock mid - low	Built over	None	Yes	Unknown	No/Unknown	
Q166	Fulwood Head	HAL	Ringinglow	SK 278849	Rough Rock		None	Yes	Yes	Yes	
Q168	Lord's Seat	HAL	Sheffield Redmires Reservoir	SK 255859	Rough Rock		None	No	No	Yes	
Q169	White Knowle	HPF	Chimley	SK 051830	Kinderscout Grit base		None	Yes	Yes	Yes	
Q170	Hayfield	HPF	Hayfield	SK 044867 etc	Kinderscout Grit lower		None	Yes	No	No/Unknown	
Q171	Knotherry End	DVS	Winele	SK 023694	Rough Rock	SSSI M&H	None	No	Unknown	No/Unknown	Salmon pink
Q172	Eccles Fold	HPF	Whalley Bridge	SK 030816	Chatsworth Grit		EF	Yes	Yes	Yes	
Q173	Roach Tor	HPF	Chimley	SK 082838				No	Unknown	Yes	
Q174	Haarden Edge	WHF	Holmfirth	SE 155036	Rough Rock Flags	M&H	Q 174	No	Yes	Yes	Dark brown, buff
Q175	Bretton	EUD	Exyam	SK 225777	Shale Grit		None	(Yes)	Unknown	Unknown	
Q176	Stoke Hall	EUD	Exyam	SK 238770	Shale Grit		None	Yes	No	Yes	Yellow, buff
Q177	Lonsycough	HPF	Glossop	SK 031925		Nat. res.	None	Yes	No	No/Unknown	

## Annex 2.6 The complete quarries database.



## DERBYSHIRE/PEAK PARK TILESTONES STUDY

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## Geological correlations.

The following four tables explain the use of the geological names of sandstones within the region of this study.

Table 2.4 Describes the main rock units of the region.

Table 2.5, which is the work of Mick Stanley,<sup>2</sup> correlates Farey's Grits with the modern litho-stratigraphic units across North Derbyshire, Staffordshire and South Yorkshire.

Tables 2.6 and 2.7 were produced by Ian Thomas. They correlate the various equivalent rock names which are used across the region.

Table 2.4 The main rock units of the study area and their significance  
After Thomas<sup>1</sup>

Series	Units	Key stone slate areas	Comment and general significance
Westphalian  (Coal Measures)	Ell Coal Rock Deep Hard Rock Silkstone Rock Wingfield Flags Crawshaw Sandstone	Wingfield Flags	Numerous highly variable cycles which include fissile sandstones from a few metres to tens of metres thick. Many cycles are incomplete. Sandstones are mainly found in the bottom and in a limited section of the middle of the sequence. Most of these sandstones are too coarse, (eg Crawshaw Sandstone), friable, impersitent, silty or flaky to be used for roofing. The Wingfield Flags are a notable exception.
Namurian  (Millstone Grit)	Rough Rock	Upper Derwent Hallam Don & Dane Valleys	Relatively thin with a narrow outcrop but laterally the most extensive and consistent sandstone unit. It has been worked for stones slates more extensively than any other sandstone.
	Middle Grit Group  Chatsworth Grit Roaches Grit Ashover Grit	High Peak Forest Macclesfield Forest	Very variable laterally and vertically, containing a number of widespread and generally important building stones, notably the Ashover and Chatsworth Grits. Whereas most of these sandstones are massively bedded and are frequently coarse grained, some, particularly at the top of a bed, offer good roofing sources.
	Kinderscout Grit	High Peak Forest Upper Derwent Saddleworth	Typically, coarse and massive "gritstone" it is rarely used for building in contrast to its thickness and extensive outcrop. However, it has been worked locally for stone slates, especially in areas where the main sandstone breaks into separate leaves or as it approaches the southern depositional limits
	Shale Grit	Upper Derwent	A sequence of alternating thin block sandstones and mudstones only very occasionally yielding stone slates.
	Lower Shales	Staffordshire Moors	A thick series of dark mudstones with occasional limestones near the base and sandstones only in the west. No roofing sources.

Table 2.5 Correlation of litho-stratigraphic horizons with Farey's Grits  
After Stanley<sup>2</sup> and Thomas<sup>1</sup>

Stage			Farey
West-phalian	Duckmantian	ELL Coal Rock	Tenth Grit
	Langsettian	Deep Hard Rock Silkstone Rock Wingfield Flags Crawshaw Sandstone	Ninth Grit Seventh Grit Fourth Grit Third Grit
Namu-rian	Yeadonian	Rough Rock	Second / Third Grit
	Marsdenian	Chatsworth Grit Roaches Grit Ashover Grit	Second Grit First / Second Grit
		Kinderscoutian	Kinderscout Grit
	Alportian	No Sandstones	Shale Grit

Table 2.6 Lower Westphalian Sandstones  
After Thomas<sup>1</sup>

Area	Holmfirth Glossop	Sheffield	Chapel en le Frith Macclesfield & Buxton	Chesterfield Derby
Marine marker band	Penistone Flags Grenoside Sandstone Greenmoor Rock Upper Band Rock	Silkstone Rock Penistone Flags Grenoside Sandstone Greenmoor Rock Brincliffe Edge Rock Loxley Edge Rock	Milnrow Sandstone  Other Sandstones	Wingfield Flags
Gastrioceras listeri				
Gastrioceras subrenatum	Penistone Flags Grenoside Rock	Silkstone Rock Penistone Flags Grenoside Rock	Sandstone	Crawshaw Sandstone

The areas are those of the published British Geological Survey maps.  
Inner thin unnamed sandstones are not shown.

Table 2.7 The Namurian Sandstones

STAGE \ AREA	Holmfirth/ Glossop	Sheffield	Chapel-en-le- Frith	Buxton/ Leek/ Bakewell	Chesterfield/ Matlock/ Mansfield	Macclesfield
YEADONIAN (G <sub>1</sub> )	Rough Rock. Rough Rk Flags. Meltham coal	Potclay Rough Rock	Rough Rock. Rough Rk Flags.	Rough Rock.	Potclay Coal Potclay Rough Rock	Rough Rock.
MARSDENIAN (R <sub>2</sub> )	Huddersfield White Rock Beacon Hill Flgs Pule Hill Grit = Heyden Rock = Rivelin Grit Readycon Dean Series	Redmires Flags Rivelin = Chatsworth Grit	Redmires Flags Chatsworth Grit Roaches Grit Corbar Grit  Heyden Grit	Chatsworth Grit Roaches Grit = Ashover Grit Corbar Grit = Five Clouds Sstns Sheen Sstns	Redmires Flags Brown Edge Flags Chatsworth Grit	Chatsworth Grit Roaches Grit Rushtonhall Grit = Walker Barn Grits
KINDERSCOUTIAN (R <sub>1</sub> )	Kinderscout Grit Grinslow Shales Shale Grit	Kinderscout Grit	Kinderscout Grit Shale Grit Mam Tor Beds  Edale Shales	Longnor Sstns Kinderscout Grit = Kniveden Sstns Blackstone Edge Sstns	Kinderscout Grit	Upper Churnet Shales
ALPORTIAN (H <sub>2</sub> )		No outcrop	Edale Shales		Sabdenian Shales	Middle Churnet Shales
CHOKERIAN (H <sub>1</sub> )		No outcrop	Edale Shales	Lum Edge Sstns	Sabdenian Shales	Lower Churnet Shales  Minn
ARNSBERGIAN (E <sub>2</sub> )		No outcrop	Edale Shales	Hurdlow Sstns	Sabdenian Shales	Sstns
PENDELIAN (E <sub>1</sub> )		No outcrop	Edale Shales	Minn Sstns	Sabdenian Shales	Lask Edge Shales
SOURCE---	Bromehead et al. 1933	Eden et al. 1957	Stevenson & Gaunt 1971	Aitkenhead et al. 1985	Smith et al. 1967	Evans et al. 1968
KEY: = Equivalent or part equivalent unit. Unnamed shales omitted <b>NB : NOT TO SCALE</b>						



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