



john newton & partners
jnp group
Consulting Engineers

Report on

Coal Mining Risk Assessment

Erection of two storey dwelling:
Northway
Mirfield

For

Mr Steve Kennington

Prepared by

Marta Sroka
MEng

Approved by

Stuart Evans
BEng CEng MICE MStructE
Partner

Date

25th February 2015

Ref.

B20378

Chesham
Brighouse
Midlands
Sheffield
Teesside



Issue Record

Job Number: B20378

Prepared By:

A handwritten signature in black ink, appearing to read 'Marta Sroka'.

Marta Sroka
MEng
Engineer

Checked By:

A handwritten signature in blue ink, appearing to read 'Stuart Evans'.

Stuart Evans
BEng CEng MICE MStructE

Partner

Date: 25th February 2015

Revision	Change Overview	Reason for Change	Date

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COAL MINING RISK ASSESSMENT

B20378: Erection of two storey dwelling at Northway, Mirfield.

1 INTRODUCTION

JMH Design Architectural and Interior Consultants has submitted a planning application for the proposed development of two storey dwelling in the rear garden of 115 Northway, Mirfield.

JNP Group has been commissioned to prepare a Coal Mining Risk Assessment Report for the proposed site in order to provide the Local Planning Authority with information on coal mining and an assessment of its impact on land stability.

1.1 Site Location and Description

The site is located to the south of Taylor Hall Lane, near the junction with Northway in Mirfield village, north east of Huddersfield town centre. Refer to Appendix A for scheme drawings.

1.2 Description and Layout of Proposed Development

The proposed development consists of an erection of two storey dwelling in the rear garden of 115 Northway. Refer to Appendix A for Architectural drawings.

1.3 Scope of the Coal Mining Risk Assessment

The purpose of this Coal Mining Risk Assessment Report is to:

- Present a desk-based review of all available information on the coal mining issues which are relevant to the application site;
- Use that information to identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues;
- Set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues might influence the proposed development; and
- Demonstrate to the Local Planning Authority that the application site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land, if necessary.

2 SOURCES OF INFORMATION USED TO INFORM THIS REPORT

The following sources of information have been obtained, upon which the risk assessment of coal mining issues have been based. Reports/extracts are appended.

- An up-to-date Coal Mining Search Report (Appendix B) which includes information obtained from a visit to The Coal Authority's Mining Records Office in Mansfield, Nottinghamshire.
- Geological information obtained from the British Geological Survey including the 1:50,000 Series Solid and Drift Edition, Sheet No. 77 (Appendix C) and nearby borehole location records (Appendix D).
- A site history based on historic Ordnance Survey mapping of the area (Appendix E).
- Past desk-based assessments of ground conditions for the application site or adjacent/nearby sites. (None of direct relevance available)
- Results of past intrusive site investigation works undertaken to assess ground conditions for the application site or adjacent/nearby sites. (None of direct relevance available)

3 IDENTIFICATION AND ASSESSMENT OF SITE SPECIFIC COAL MINING RISKS

The table below summarises the potential risks associated with coal mining legacy for the proposed development site, identified from the sources listed in Section 2.

Coal Mining Issue	Yes	No	Risk Assessment
Underground coal mining (recorded at shallow depths)		x	yes
Underground coal mining (probable at shallow depths)	x		yes
Mine entries (shafts and adits)		x	
Coal mining geology (fissures)		x	
Record of past mine gas emissions		x	
Recorded coal mining surface hazard		x	
Surface mining (opencast workings)		x	

3.1 Geology

Examination of the published solid and drift map of the area indicates the site to lie in an area of Lower Coal Measures, shales and mudstones. The surrounding area has a complex geology with the net of fault lines surrounding the site. There are two fault lines running in northwest to southeast direction located at both side of the site (approximately 350m southwest and 500m northeast) and both with the downthrow side towards the site. Another fault line running northeast to southwest direction with the downthrow side towards North is located approximately 900m northwest of the site.

The geological map shows the coal outcrop identified as the Wheatley Lime seam is located approximately 100m northwest of the site. The strata in the local area gently dips towards the North, away from the site and therefore the seam is not expected to be present and worked beneath the site. The Blocking coal seam outcrop is located approximately 900m southeast of the site. The Coal Mining Search Report confirms the Blocking coal has been worked in relation to the property pre 1900 within the likely zone of the physical influence on the surface. The thickness of the seam is 69cm and it has been worked at 29m depth which provides a sufficient cover of competent strata overlying any possible voids created by mining activities in this seam and therefore this mining activity would seem to pose no risk to the proposed development.

The Coal Mining Search Report indicates also that the Low Moor Black Bed and Better Bed coal seams that have also been worked in the past within the likely zone of physical influence on the surface. The 76cm thick Black Bed seam has been worked pre 1915 at 152m depth, and 70cm thick Better Bed seam has been worked pre 1931 at 180m depth. Neither of those old recorded workings pose any significant risk to the site as there is a sufficient cover of competent strata overlying voids created by these mining activities and any possible settlement is likely to have been completed long ago.

There are 5 more coal seams present between the Blocking and the Black Bed seams, none of which are at shallow depth and therefore they pose no risk to the proposed development in terms of unrecorded ancient workings.

3.2 Borehole Logs

There are a number of boreholes or trial pits located northeast of the site, none of which have the records available for review. The historic ordnance survey maps for this adjacent site (located across Taylor Hay Lane) suggest that the site has been used as a clay pit in the past. This may explain the significant number of trial pits/boreholes that have been undertaken before any development of that site, however it does not appear to affect the subject site.

There are two boreholes located approximately 300m southeast of the site (SE22SW1557 and SE22SW1558) which are 5.5m and 6.5m deep. Both boreholes indicate the strata to be very loose to loose brick, quarry sandstone, etc. and a 70cm cavity at 1.7m depth on one occasion. No coal has been recorded, however the boreholes only just penetrated to natural ground.

3.3 Mine Entries

The Coal Mining Search Report states that there is no knowledge of any mine entries within 20 metres of the property or the boundary of the property. There are no tips or lagoons in the vicinity of the site. The digital map confirms the above information.

3.4 Open cast working

The property is not situated within the boundary of a former opencast coal mining site and there is no underground or opencast workings currently planned within 800m of the boundary.

3.5 Intrusive Investigation of Nearby Site

Not available.

3.6 Possible Ancient Shallow Coal Workings

The Coal Mining Search Report highlights the site to be located within the area of possible ancient coal mining working within the likely zone of influence on the surface. The study of the geological maps and the Coal Authorities own maps suggests that the risk is low as the area at risk of ancient shallow mine workings is to the north of the outcrop of the Wheatley Lime seam which in turn has been confirmed by the BGS Map to outcrop to the north of the site.

4 MITIGATION STRATEGY PROPOSED

The Blocking seam worked in the past at 29m (and two other seams worked at 152m and 180m) have a sufficient cover of competent strata overlying the voids and therefore they pose little risk in terms of land instability to the proposed development. No further recommended action to be taken with regards to old deep workings.

The Coal Mining Search Report suggest that there are possible ancient coal mining workings within the likely zone of influence on the surface in the vicinity of the property, for which no accurate plans or records exist. However studies of the geological sequence of strata shown on the BGS map suggests that the risk is low, as there are no other seams recorded beneath the site at shallow depth, other than Blocking seam which has been discussed above and which we believe pose little risk to the proposed development.

It would be prudent to investigate the actual strata below the site by driving a borehole to 30m depth, however, in this case the studies suggest that evidence of shallow works will not be found. As the documentary suggests that the mining risk is low, the risk associated with not carrying out a borehole is considered to be acceptable if the developer does not require the additional confidence that a borehole would provide. If a borehole is driven and coal is encountered, or if greater confidence in the below ground strata is required, then the number of boreholes could be increased to three (this will provide a three dimensional view of the strata).

5 THE COAL AUTHORITY PERMISSION

Prior written permission from The Coal Authority is required for intrusive activities which will disturb or enter any coal seams, coal mine workings or coal mine entries (shafts and adits). Further information on The Coal Authority's permissions process can be found at:

www.coal.gov.uk/services/permissions/index.cfm

This permission has not been requested at this stage.

6 CONCLUSIONS AND RECOMMENDATIONS

There is a low risk of shallow ancient mine workings within influence of the surface, highlighted by the Coal Mining Search Report that could be investigated prior to development. However, we are of the opinion that the risk is sufficiently low for further investigation not to be carried out if the developer is prepared to develop the site without the confidence that further investigation would provide.

If it is wished to fully assess the risk we would recommend a borehole is undertaken on site to a depth of 30m to determine the arrangement of the strata beneath the site.

Should a seam that may have been worked be discovered beneath the site and there is insufficient cover of competent strata overlying that seam then the site would require fully investigating and any workings would need to be grouted beneath the footprint of the property.

Given the low risk of shallow workings, we do not envisage a restriction to the development.

Appendix A

David Bellis Consulting Surveyors Ltd
8, Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH

(DX 720352 Harrogate)

T: 01423 529911 F: 01423 529922
E: contact@coalsearch.plus.com
W: www.coalsearch.plus.com



By

David Bellis
CONSULTING SURVEYORS

Coal Mining Search Report

Incorporating Cheshire Brine Enquiries



18 Feb 15

Coal Mining Search Report

Incorporating Cheshire Brine Enquiries

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Client detail :

John Newton & Partners
Woodvale House
Woodvale Office Park
Woodvale Road
Brighouse
West Yorkshire HD6 4AB

CoalSearchPlus+ by David Bellis Consulting
Surveyors Ltd
8 Morningson Terrace
Harrogate
North Yorkshire
HG1 5DH
(DX 720352 Harrogate)

Tel 01423 529911
Fax 01423 529922

Search produced by M J Peace

Property details:

115 Northway
London Park
Mirfield
WF14 0LT

Your ref : B20378

Purchaser :

Vendor :

In accordance with your instructions received 11 Feb 2015 we have inspected plans and records of coal mine workings and have made enquiries with respect to Cheshire brine extraction in relation to the above property and can report as follows :

1. SEAM DETAILS FOR PAST UNDERGROUND COAL MINING : In relation to the property the undermentioned seam(s) have been worked within the likely zone of physical influence on the surface.

Seam	Depth (m)	Sect (cm)	Date	Remarks
Blocking	29	69	pre 1900	Subjacent
Low Moor Black Bed	152	76	pre 1915	Subjacent
Better Bed	180	70	pre 1931	Subjacent

2. SEAM DETAILS FOR CURRENT AND FUTURE UNDERGROUND COAL MINING : The undermentioned seam(s) are currently being worked, or licenses to work are being determined, or have been granted to work, within the likely zone of physical influence on the surface in relation to the property.

Seam	Depth (m)	Sect (cm)	Date	Remarks
				Coal in reserve - no workings currently planned.

3. UNDERLYING GEOLOGY :

The property is situated in an area of Middle Coal Measures, shales and mudstones.

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4. OPENCAST COAL MINING :

Past Opencast Workings : The property is not situated within the boundary of a former opencast coal mining site.

Present Opencast Workings : The property is not situated within 200m of the boundary of a currently operating opencast coal mining site.

Future Opencast Workings : The property is not situated within 800m of the boundary of an opencast site for which a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

5. SHAFTS, ADITS (MINE ENTRIES) AND ADDITIONAL INFORMATION :

We have no knowledge of any shafts or adits within 20 metres of the property or the boundary of the property.

There are no tips or lagoons in the vicinity of the property.

There are possible ancient coal mining workings within the likely zone of influence on the surface in the vicinity of the property, for which no accurate plans or records exist.

6. NOTICES IN RELATION TO FUTURE COAL MINING ACTIVITY :

We have no knowledge of any intention to work coal by underground methods within influencing distance on the surface in the vicinity of the property for which notices have been issued under the Coal Mining Subsidence Act 1991.

7. PAST COAL MINING RELATED SUBSIDENCE :

Our investigations have shown no evidence of coal mining related subsidence claims in relation to the property in the past 10 years.

8. CONCLUSION (COAL MINING) : In the light of the above facts we conclude that in relation to coal mining :

Old workings are present but all settlement is likely to have completed long ago.
In our opinion it is unlikely that coal will be worked in the foreseeable future.

COAL MINING RISK LEVEL : We recommend that the transaction is treated as :

Where this report is to be used for development purposes particular attention is drawn to the paragraphs below concerning the ownership of in situ coal, coal workings and the risks from mine gases.

Please note that the overall coal mining risk level above is based upon an assessment of the detailed information contained in the body of the report. The risk assessment must be used in conjunction with the detailed report.

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If development of the property is being considered then all necessary enquiries and investigations should be completed prior to the commencement of works to ensure that proposals follow good engineering practice for development in mining areas. The Coal Authority has ownership of in situ coal, coal mines (both current and disused) and coal mine shafts and adits. Activities that intersect, enter or disturb any of the Coal Authority's interests require the written permission of the Authority.

Any development proposals should consider risks to the development, or adjacent property, of generating or displacing underground gases where coal seams or former mining works are disturbed. The need for effective measures to prevent gasses entering public properties should be assessed and properly addressed. These actions are necessary due to the public safety implications of development in these circumstances.

CHESHIRE BRINE EXTRACTION INFORMATION :

The property lies outside the Cheshire Brine Compensation District as prescribed by the Cheshire Brine Pumping (Compensation for Subsidence) Act 1952.

With respect to coal mining there is nothing to prevent a claim being made under the provisions of the Coal Mining Subsidence Act 1991 and subsequent legislation, but it must not be inferred that the Coal Authority or their licensees will necessarily accept that any damage has been caused as a result of mining subsidence.

If you require any further information or amplification please contact CoalSearchPlus+ on 01423 529911 or via our website www.coalsearch.plus.com.

This report is prepared in accordance with the CoalSearchPlus+ terms and conditions as published on the CoalSearchPlus+ website (www.coalsearch.plus.com) on the date of issue of this report.

This is a Coal Mining Search Report and is not to be interpreted as being part of an Environmental Assessment of the property.

We cannot be held responsible for the accuracy of the information provided to us by third party organisations.

The information and/or material supplied is composed from data based in many cases on measurements and records of various standards of reliability and age. We cannot be held responsible for the accuracy of such information.

This search report is based upon the privately owned CoalSearchPlus+ mining record database and plans and records publicly available at the time of inspection from the Coal Authority, including British Geological Survey and Ordnance Survey data. Organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining (subsidence) Act 1991 and the Coal Industry Act 1994.

Coal Authority Address : The Coal Authority, 200 Lichfield Lane Berry Hill, Mansfield, Nottinghamshire, HG18 4RG
British Geological Survey Address : British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG

The information contained in this report relates to the property address given by the individual or organisation ordering the report. Where a plan indicating the property location and boundary is supplied with the instruction the report is based on that information. Where no plan is supplied the report is based on the property location as defined in publicly available mapping data. At all times it remains the responsibility of the instructing organisation or individual to define the boundary of the property.

Additional notes applicable to Residential Coal Mining Reports only :

David Bellis Consulting Surveyors Ltd is not aware of any personal or business relationship between the person conducting or preparing the search and any person involved in the sale of the property.

This report is a desk study of existing published geological and coal mining records and the CoalSearchPlus+ coal mining database. In order to compile this report enquiries have been made relating to the following :

Past Coal Mining – the existence of any previously worked seams of coal within influencing distance on the surface in relation to the property including an indication of the location, depth and age of the workings,

Present Coal Mining - the existence of any currently worked seams of coal within influencing distance on the surface in relation to the property including an indication of the location, depth and age of the workings. The existence of coal that could be worked at some time in the future will be enquired into and detail of any relevant licenses disclosed where available.

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Underlying Geology - the underlying geology of the property will be reviewed and briefly described in relation to coal mining.

Opencast Coal Mining - the existence of past present and future opencast coal mining, specifically :

- if the property is situated within the boundary of a former opencast site. In the case of old opencast workings it must be understood that records are often unclear regarding the site boundary and/or worked areas. Published records will be reviewed to give our opinion of the existence of relevant former opencast coal workings.
- if the property is situated within 200m of the boundary of a currently operating opencast site.
- if the property is situated within 800m of the boundary of an opencast for which either a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

Shafts, Adits (Mine Entries) and Additional Information – the existence of any mine entries within 20m of the property or the boundary of the property and its associated land and buildings (the definition of the boundary of the property is the responsibility of the individual or organisation ordering this report). Where a mine entry is found to exist the approximate location of the mine entry will be indicated on a plan to be provided by the instructing organisation or individual. The existence of unworked coal will be enquired into and our opinion regarding the likelihood of it being worked at some time in the past will be given where relevant. Any other relevant coal mining related features discovered will be noted.

Notices in relation to future coal mining activity – the existence of notices indicating an intention to work coal by underground methods in the future.

Past coal mining related subsidence – if any publicly available records indicate coal mining related subsidence affecting the property in the past 10 years.

Coal Mining Risk Level – the opinion of David Bellis Consulting Surveyors of the risk posed to the property from coal mining given all the information contained in the report. The risk to the property is given in relation to the majority of the housing stock in the immediate area.

Cheshire Brine – the location of the property in relation to the Cheshire Brine Compensation District and any relevant information to the property regarding brine extraction.

Additional information, including answers to many frequently asked questions, can be found on the CoalSearchPlus+ website, www.coalsearch.plus.com

Complaints Procedure

David Bellis Consulting Surveyors Ltd is registered with the Property Codes Compliance Board as a subscriber to the Search Code. A key commitment under the Code is that firms will handle any complaints both speedily and fairly.

If you want to make a complaint, we will:

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306, E-mail: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Complaints should be sent to:

Mr M. Peace, Director, David Bellis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH
Tel : 01423 529911 Fax : 01423 529922 Email : contact@coalsearch.plus.com

Date : 18 Feb 2015

Signed :



Serial Number 312334**Important Consumer Protection Information**

This search has been produced by David Belis Consulting Surveyors Ltd, 8 Morningson Terrace, Harrogate, HG1 5DH (T: 01423 529911, F: 01423 529922, E: contact@coalsearch.plus.com) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered firms maintain compliance with the Code.

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- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

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- Conduct business in an honest, fair and professional manner.
- Handle complaints speedily and fairly.
- Ensure that all search services comply with the law, registration rules and standards.
- Monitor their compliance with the Code.

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If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award compensation of up to £5,000 to you if he finds that you have suffered actual loss as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk.

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

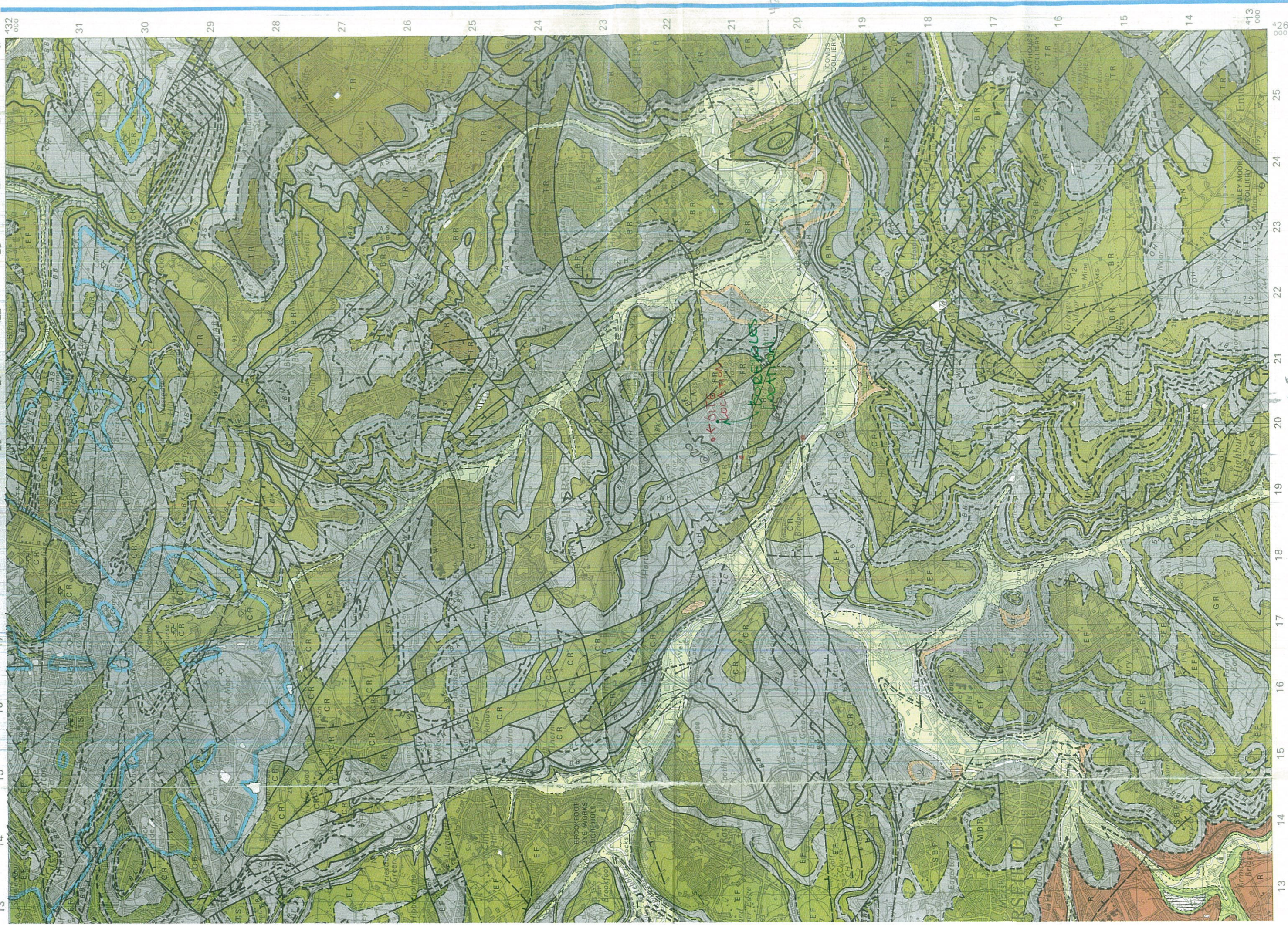
Serial Number 312334**David Bellis Consulting Surveyors Ltd and CoalSearchPlus+ Terms and Conditions (Available in large print by request)**

1. Definitions.
 - a) The Service Provider is David Bellis Consulting Surveyors Ltd, trading as CoalSearchPlus+.
 - b) The Applicant is the Individual, Organisation, or appointed officer of said Organisation placing a Request with the Service Provider.
 - c) The Third Party Provider is any Organisation from which the Service Provider obtains data and/or information on behalf of the Applicant in the normal course of fulfilling the Applicants Request.
 - d) The request is a formal Request by the Applicant with CoalSearchPlus+ to retrieve specific data and/or information.
2. CoalSearchPlus+ accept Requests only on the basis that the Applicant is acting as a principal and is directly liable for payment of our invoice or account.
3. It is the policy of CoalSearchPlus+ to observe confidentiality with regard to the identity and affairs of our customers to the extent permitted by law, but, in common with other service providers, we may be required exceptionally to disclose information to governmental and other public authorities.
4. The placing of a Request by the Applicant with CoalSearchPlus+ confirms acceptance of these terms and conditions.
5. Any Order Form produced by CoalSearchPlus+, either printed or published on the CoalSearchPlus+ website, is an invitation to treat. The Applicant makes an offer to buy from CoalSearchPlus+ by the submission of a Request, subject to clause 10. Acceptable modes of transmission for a Request are facsimile (fax), telephone, electronic mail(e-mail), online transmission via the CoalSearchPlus+ website only, Document Exchange (DX), Royal Mail or courier appointed by the Applicant.
6. Orders will be accepted on order forms other than CoalSearchPlus+ forms however these will be accepted under the standard CoalSearchPlus+ terms and conditions only, subject to Clause 10.
7. CoalSearchPlus+ reserves the right to refuse any Request.
8. CoalSearchPlus+ reserves the right to cancel any Request at any time.
9. Proof of transmission of a Request by the Applicant does not constitute proof of receipt by CoalSearchPlus+.
10. It is the responsibility of the Applicant to ensure the accuracy, legibility, clarity and completeness of all data and/or information provided to CoalSearchPlus+ as part of the Request, including but not limited to, names, numbers, addresses, location plans, and boundary plans. This applies whether the Request is submitted on CoalSearchPlus+ order forms either printed or published on the CoalSearchPlus+ website or on the Applicants own order form.
11. CoalSearchPlus+ may request additional relevant data and/or information from the Applicant in the course of fulfilling a Request, including, but not limited to, names, numbers, addresses, location plans, and boundary plans.
12. CoalSearchPlus+ may request clarification of data and/or information supplied by the Applicant.
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14. If, subsequent to Clause 11. and/or Clause 12., requested data and/or information is not provided and/or clarified within a reasonable period of time, CoalSearchPlus+ reserves the right to cancel the Request in whole or in part. The Applicant remains liable for all fees, Taxes and Disbursements accrued prior to the cancellation.
15. CoalSearchPlus+ reserves the right to subcontract data and/or information retrieval to selected Organisations and/or Individuals. CoalSearchPlus+ is not required to reveal the identity of its Subcontractors.
16. CoalSearchPlus+ will, in the process of fulfilling the request, retrieve data and/or information from publicly and/or commercially available sources and the CoalSearchPlus+ mining database. The sources of data used will primarily be data held by The Coal Authority under an agreement with the Health and Safety Executive, data owned by the British Geological Survey and the CoalSearchPlus+ database.
17. A CoalSearchPlus+ mining report is a report of the interpretation of the data sources in 16. made by CoalSearchPlus+ staff.
18. CoalSearchPlus+ coal mining search reports are based upon the plans and records available from data sources detailed in 16. at the time the report was produced. It should be understood that third party organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining Subsidence Act 1994. CoalSearchPlus+ cannot be held responsible for changes to the future proposals and intentions of Third Parties.
19. The information and/or material supplied in a CoalSearchPlus+ coal mining report is composed from data based, in many cases, on measurements and records of various standards of reliability and age. In some instances (usually relating to older records) it is necessary for CoalSearchPlus+ to make assumptions regarding the 'best plot' position of mining features. For these reasons users of CoalSearchPlus+ reports should take the position of mining features detailed in reports to be indicative only.
20. The data and/or information that a coal mining search report is based on is constantly being updated. A CoalSearchPlus+ coal mining search report is based on the most up to date information available at the time that the report is produced however it cannot be guaranteed that the information and/or data will not become obsolete at some time in the future. Responsibility for the supply of accurate and up to date information to CoalSearchPlus+ lies with the data supplying organisations listed in 16.
21. A CoalSearchPlus+ coal mining search report relates only to coal mining and minerals worked in relation to coal mining. Other reports may be required in relation to other minerals.
22. A CoalSearchPlus+ coal mining search report is not a substitute for site investigation or a mining survey. Depending on the content of a coal mining search report, or whether development is intended, the Applicant must decide whether a site investigation or mining survey is required.
23. CoalSearchPlus+ coal mining reports comply with the Search Code.

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24. All CoalSearchPlus+ reports are covered by professional indemnity insurance. The content of CoalSearchPlus+ coal mining search reports does not prevent any future claim being made by the Applicant against the Coal Authority in respect of coal mining related subsidence.
25. Any liability in the instance of negligence by CoalSearchPlus+ or its employees in the interpretation of coal mining data and/or the production and provision of coal mining reports will be limited to the extent of the CoalSearchPlus+ Professional Indemnity Insurance or the value of the loss caused by the negligence, whichever is the lower.
26. All CoalSearchPlus+ coal mining search reports give the information detailed in the services section of the CoalSearchPlus+ website and summarised in the report. Further explanation of this information is available in the Glossary and/or the Frequently Asked Questions areas of the CoalSearchPlus+ website. Alternatively contact CoalSearchPlus+ who will be happy to explain the content of a report.
27. The Request is fulfilled when all reports, data and/or information requested by the Applicant have been retrieved and/or compiled by CoalSearchPlus+ and delivered by electronic mail (e-mail) or fax or post or document exchange (DX) or a combination of these methods as required by the Applicant. Alternative delivery arrangements are at the discretion of CoalSearchPlus+.
28. If Requests for multiple reports, data and/or information relating to multiple addresses were made on a single order form these will be fulfilled individually by the delivery of the reports, data and/or information relating to each individual address being treated as an individual Request.
29. CoalSearchPlus+ is not responsible for any loss or misdelivery of retrieved data and/or information caused by failure of Document Exchange (DX), Royal Mail or internet service provider. Most retrieved data and/or information is archived by CoalSearchPlus+ and a copy may be requested by the Applicant. If the data and/or information could not be archived CoalSearchPlus+ reserves the right to treat the request as a new Request.
30. Delivery, by whatever agreed means, will be accompanied by an invoice. Delivery by electronic mail may be followed up with a paper invoice by post or DX. Where Applicants have agreed account facilities with CoalSearchPlus+ invoicing may be on a monthly basis. In all cases the Applicant agrees to provide CoalSearchPlus+ with remuneration for the full amount shown on the invoice, including all Fees, Taxes and Disbursements.
31. The Applicant will be liable for payment of the full invoice amount within 14 days from the date of receipt of the invoice. CoalSearchPlus+ reserve the right to charge for costs and expenses incurred in recovering late payments and to charge interest at the rate of 8% above the Bank of England base rate per annum for the full period that the payments are overdue.
32. Where full payment of the invoice is not made by the Applicant within 14 days from receipt of the invoice CoalSearchPlus+ reserve the right to withdraw account facilities from the Applicant and cancel any individual agreements concerning fees or other Terms and Conditions that may have been made between the Applicant and CoalSearchPlus+.
33. Where possible the Applicant will receive Advance Notice of the cost of the Request, including all Fees, Taxes and Disbursements, prior to receipt of the invoice. This advance notice will take the form of the price for the service requested as published on the CoalSearchPlus+ website, or the price as individually agreed between CoalSearchPlus+ and the Applicant.
34. Additional Fees, Taxes and Disbursements may arise during the course of data and/or information retrieval, over and above Advance Notice costs as in clause 33. The Applicant is liable for any such additional costs. Where possible, the Applicant is notified of additional costs prior to fulfilment of the Request.
35. If the Applicant shall pay in advance of receipt of the invoice, then the Applicant remains liable for any underpayment.
36. Any overpayment on the part of the Applicant will be refunded. Arrangements for refunds are agreed on a case-by-case basis, through discussion between CoalSearchPlus+ and the Applicant.
37. The Applicant may cancel the Request in whole or in part at any time prior to Clause 27.
38. If the Applicant cancels the Request in whole or in part prior to Clause 27, the Applicant remains liable for all Fees, Taxes and Disbursements already accrued prior to the Cancellation.
39. CoalSearchPlus+ accept no liability for any loss incurred by the Applicant or the Applicant's client where the Applicant is acting as an agent for a client, due to late fulfilment and delivery of the Request.
40. CoalSearchPlus+ accept no liability for any loss to the Applicant, or the Applicant's client where the Applicant is acting as an agent for a client, due to any negative outcome of a report provided in the process of the correct and accurate fulfilment of the Request.
41. Any disputes relating to the provision of coal mining search reports should be addressed to the Practice Principal, CoalSearchPlus+ in the first instance. Disputes will be settled according to the CoalSearchPlus+ complaints procedure detailed in each report.
42. Third Party and subcontractor Terms and Conditions shall apply in addition to these clauses. Should any conflict arise between CoalSearchPlus+ Terms and Conditions and Third Party or Subcontractor Terms and Conditions, then CoalSearchPlus+ Terms and Conditions prevail unless and until CoalSearchPlus+ expressly states otherwise in writing and/or courts of England and Wales establish otherwise.
43. No variation to these Terms and Conditions is effective unless and until CoalSearchPlus+ expressly agrees in writing.
44. CoalSearchPlus+ reserves the right to alter these terms and conditions as appropriate, without notice, at any time. Such amended Terms and Conditions will become effective upon publication on the CoalSearchPlus+ website.
45. These Terms and conditions are subject to English Law and the exclusive jurisdiction of the courts of England and Wales.

Appendix B



4 3 2 1 Miles
6 5 4 Kilometres
The vertical interval is however, 10 feet.

4205

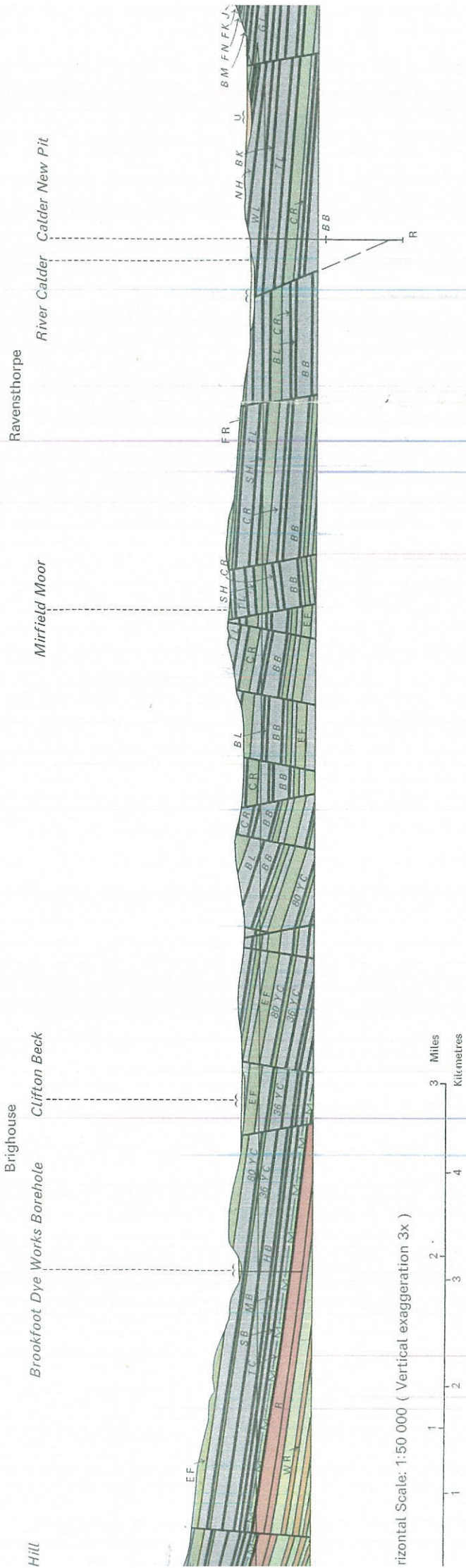
222

62

432 000
31
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
15
14
413 000

426 000

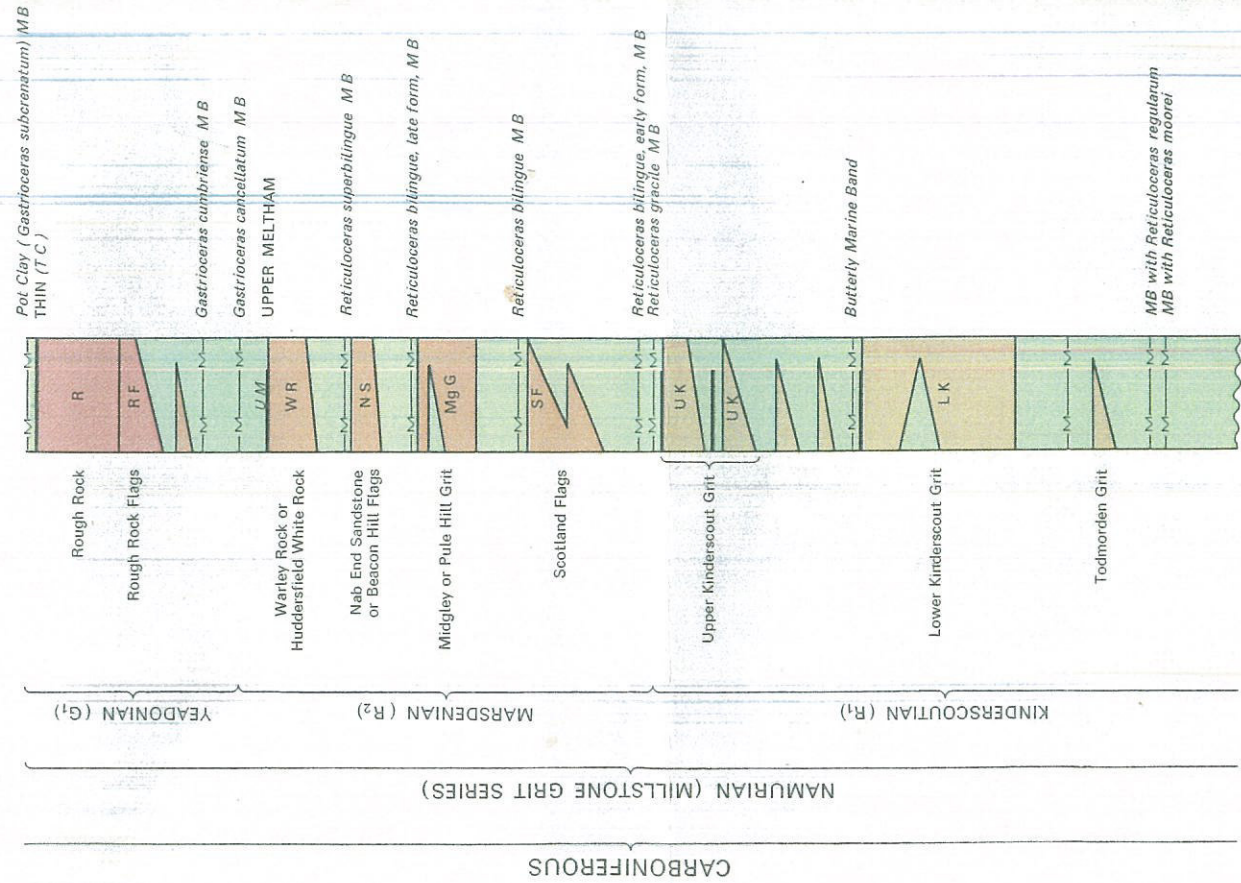
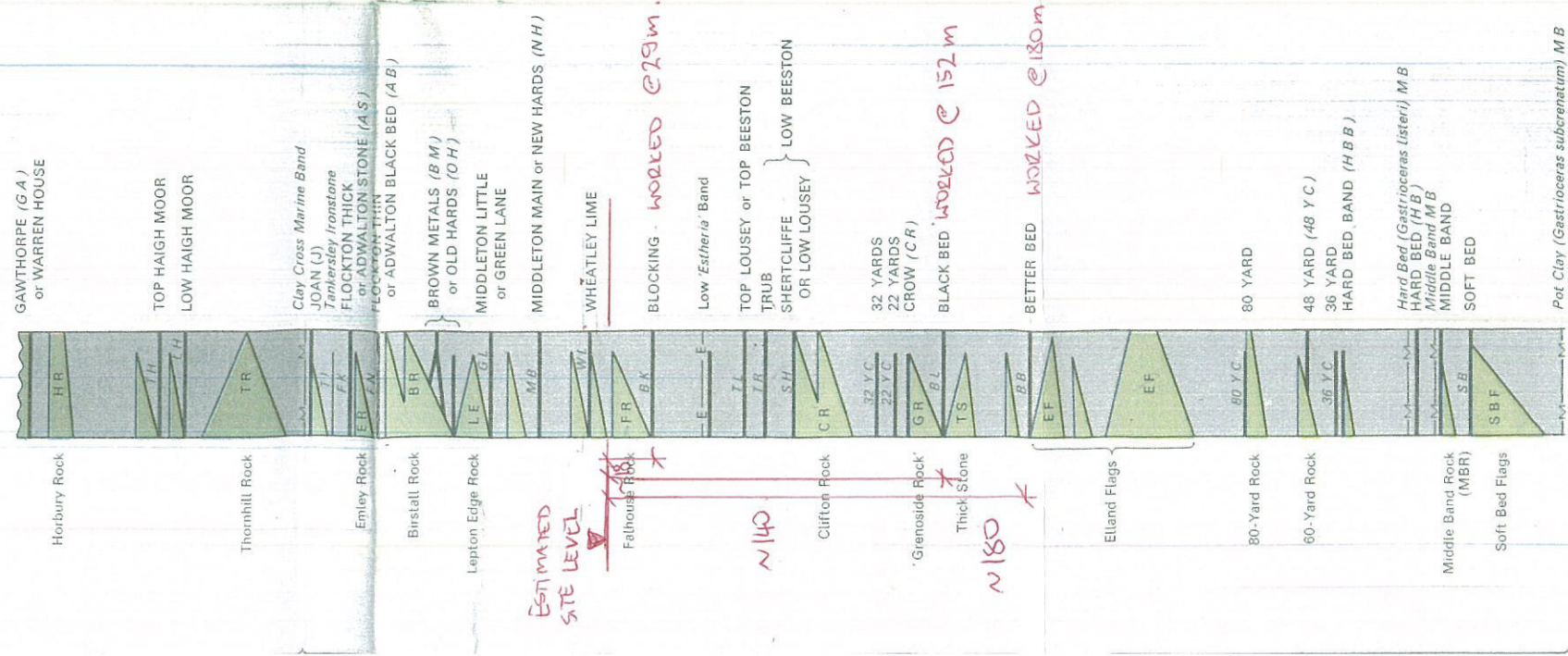
SE 225199



Names and Numbers of the adjoining 1:50 000 One-Inch Geological Sheets

68 CLITHEROE	69 BRADFORD
76 ROCHDALE	77 HUDDERSFIELD
85 MANCHESTER	86 GLOSSOP

SOLID
GENERALIZED VERTICAL SECTIONS
SCALE 1:3000



Index to the Six-Inch 'County' Geological Map
(Yorkshire 'County' maps in black, Lancashire 'County' maps in red)

Original geological survey on six-inch scale published in 1870 and 1874.
Resurveyed in 1923-25 by D. A. Wray, J. V. Stephens, and C. E. N. Bromehead, District Geologist.
Published 1927. Sir John S. Flett, K.B.E., Director.
Reprinted in 1949 and 1963.
Published on 1:50 000 scale in 1978, with minor amendments.

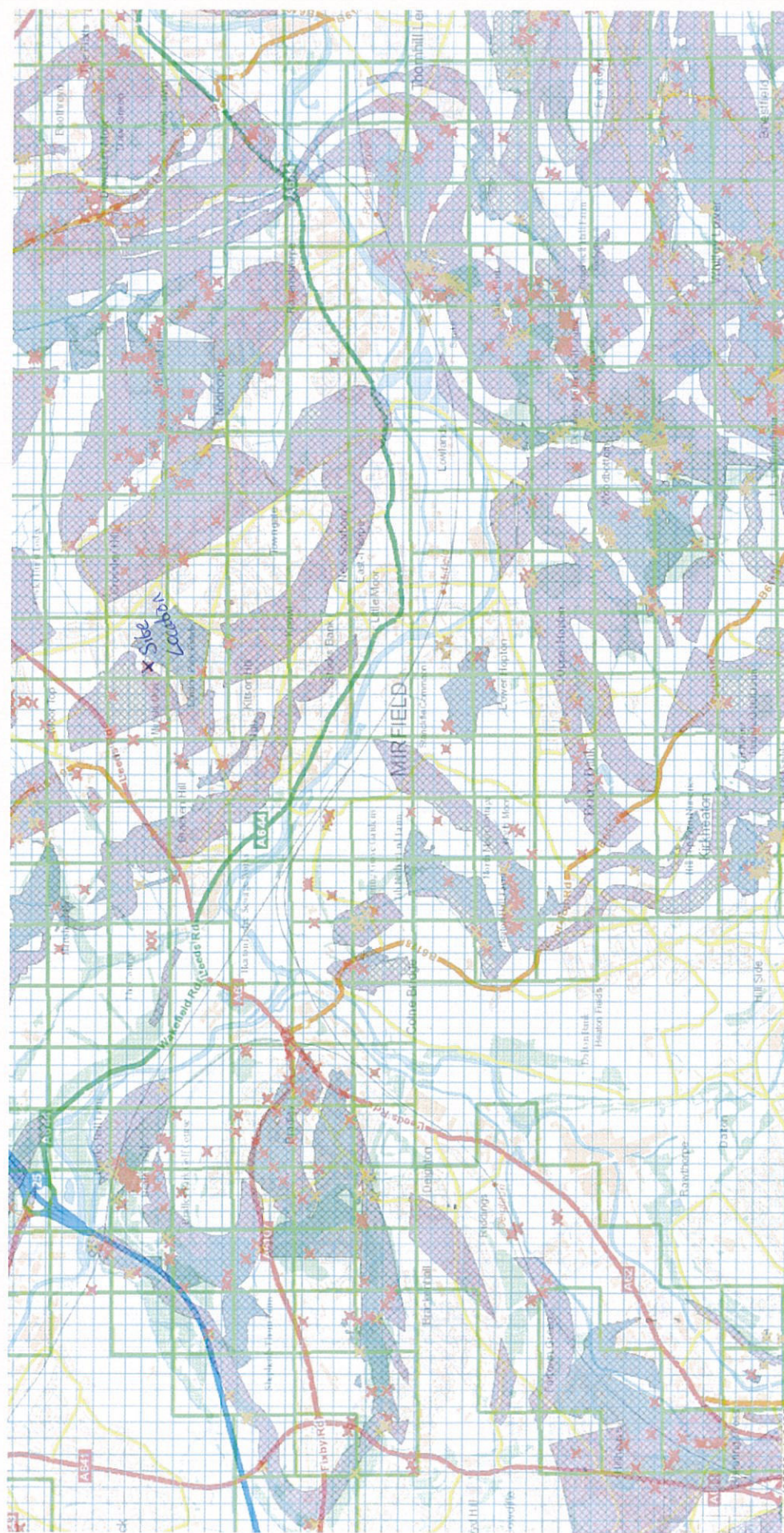
GEOLOGICAL SURVEY OF GREAT BRITAIN
(ENGLAND AND WALES)

HUDDERSFIELD

Sheet 7

1:50 000 SERIES

Solid and Drift Editions



KEY

Mine Entry

✕ Adit

✕ Gutter Pit

✕ Shaft

Abandoned Mines Catalogue



Development High Risk Area



Surface Mining (Past and Current)



Surface Coal Resource Areas



Coal Mining Reporting Area



Mine Entry Potential Zone of Influence



Fissures and Breaklines



Mine Gas Sites



Past Surface Hazard



Past Shallow Coal Mine Workings

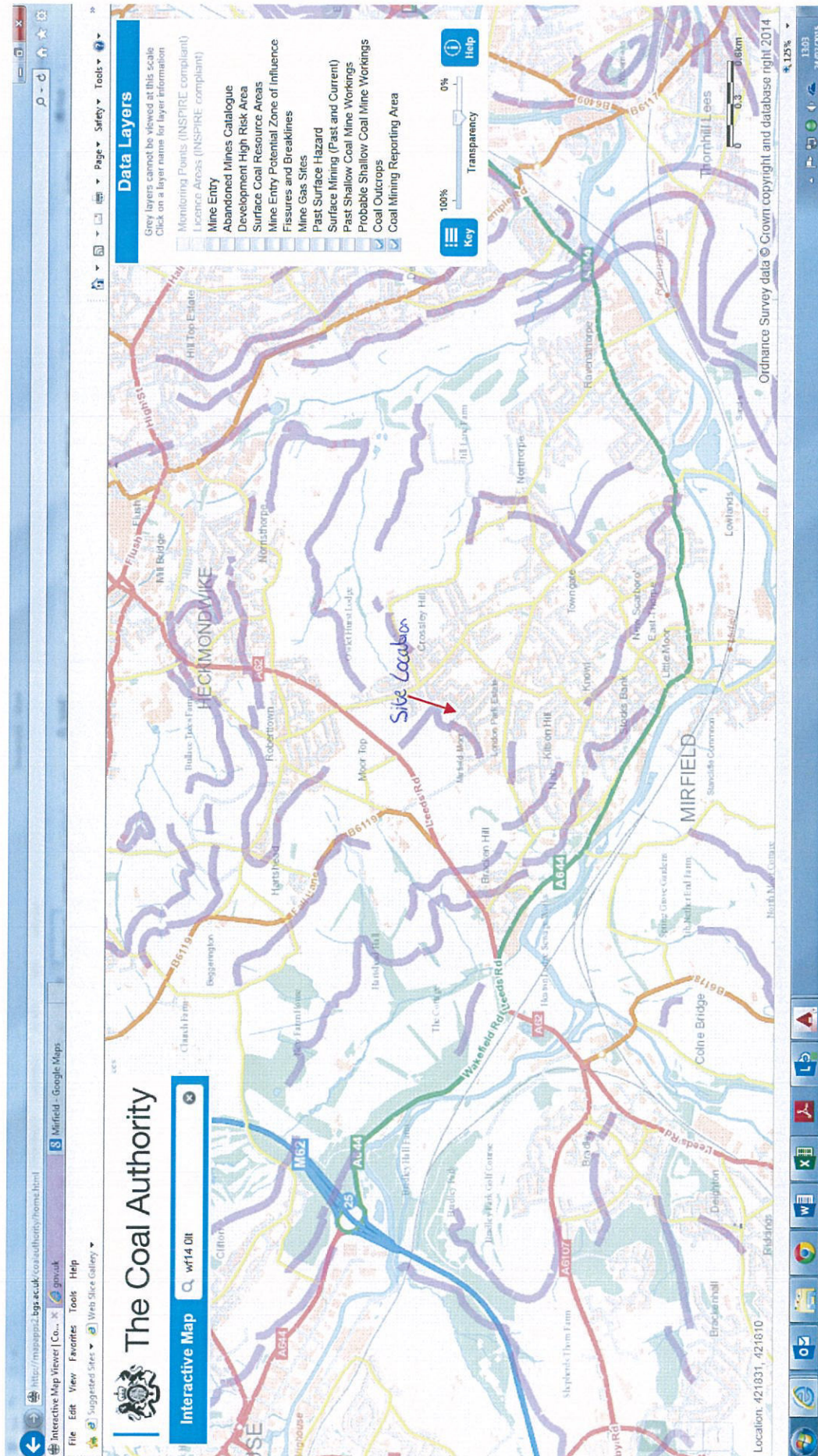


Probable Shallow Coal Mine Workings

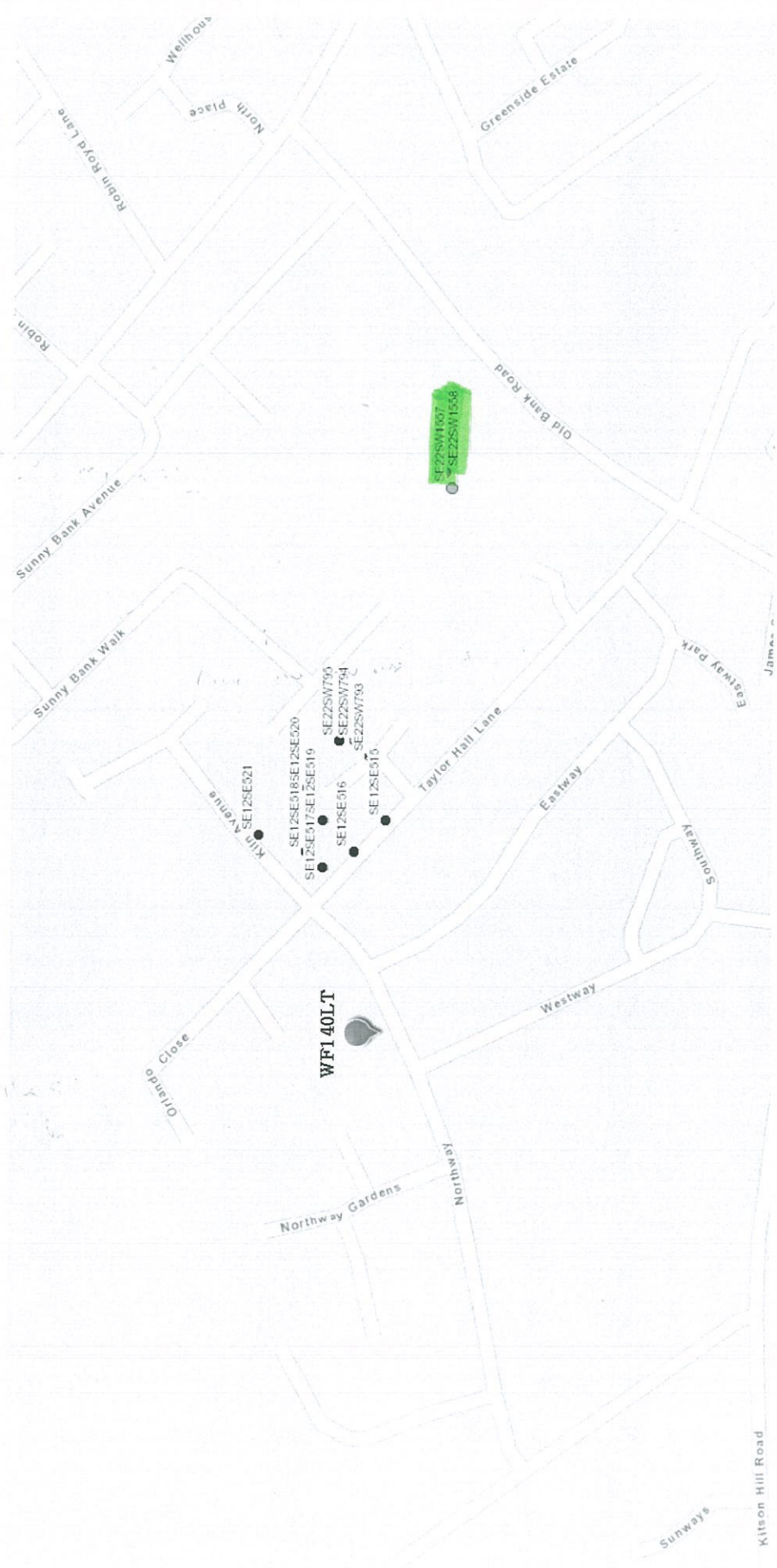


Coal Outcrops





Appendix C



SE22SW1557

DUNELM DRILLING CO.

BOREHOLE RECORD

Contract No. C6002Client JOHN ALLEN ASSOCIATES

Ground Level.....

Location WYK 018 MIRFIELDDate 7/7/93BOREHOLE No. BH1

Depth	Thick- ness	Legend	Description of Strata	Type of Sample	C kN/m ²	M %	Ø	Density Kg/m ³	N
	1.70		VERY LOOSE TO LOOSE BRICKS, ASH AND STONES - BUILDERS RUBBLE.	SPT 0.75					5
1.70				SPT 1.50					1
2.40	0.70		CAVITY	SPT 2.40					8
	2.95		VERY LOOSE TO LOOSE QUARRY SANDSTONE RUBBLE, STONES ETC.	SPT 3.50					4
5.35				SPT 5.00					96
5.50	0.15		LIGHT BROWN SANDSTONE						

Water Struck at 1.30mStanding Water Level 1.00m

DUNELM DRILLING CO.

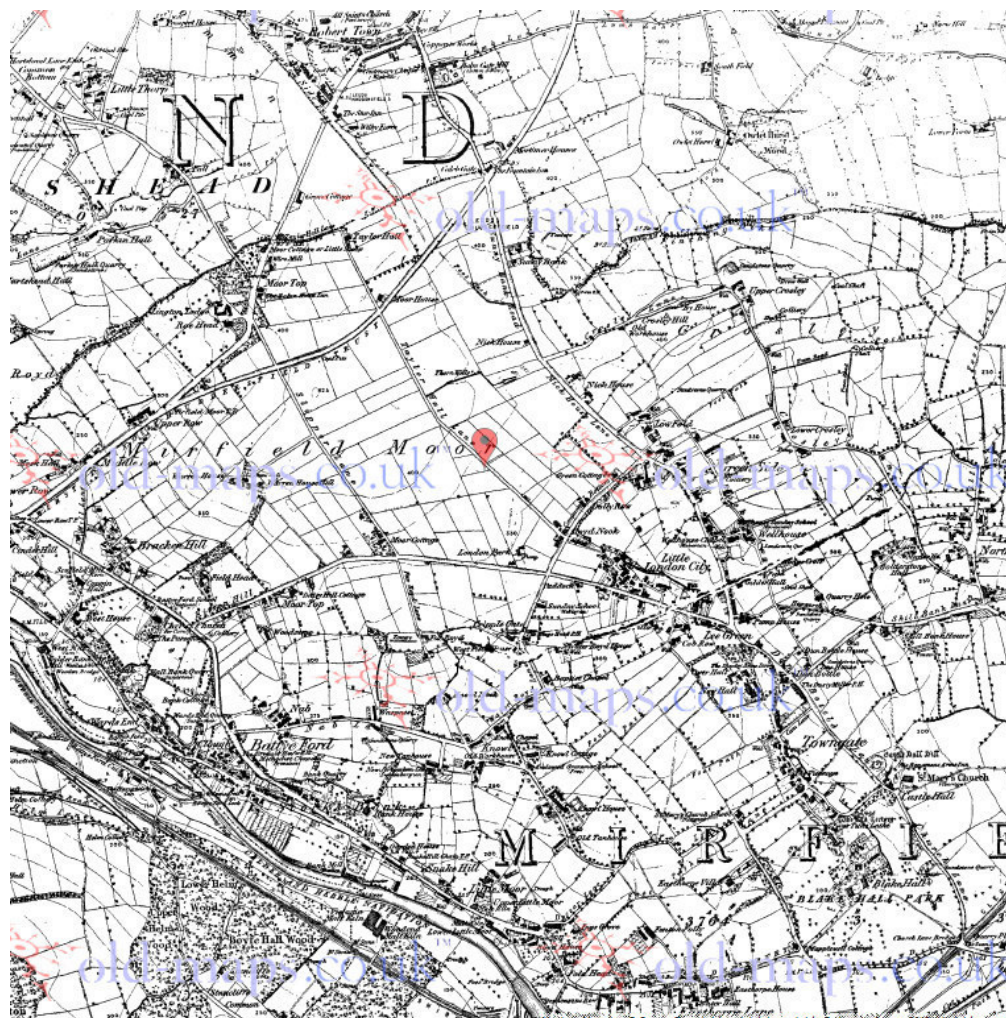
BOREHOLE RECORD

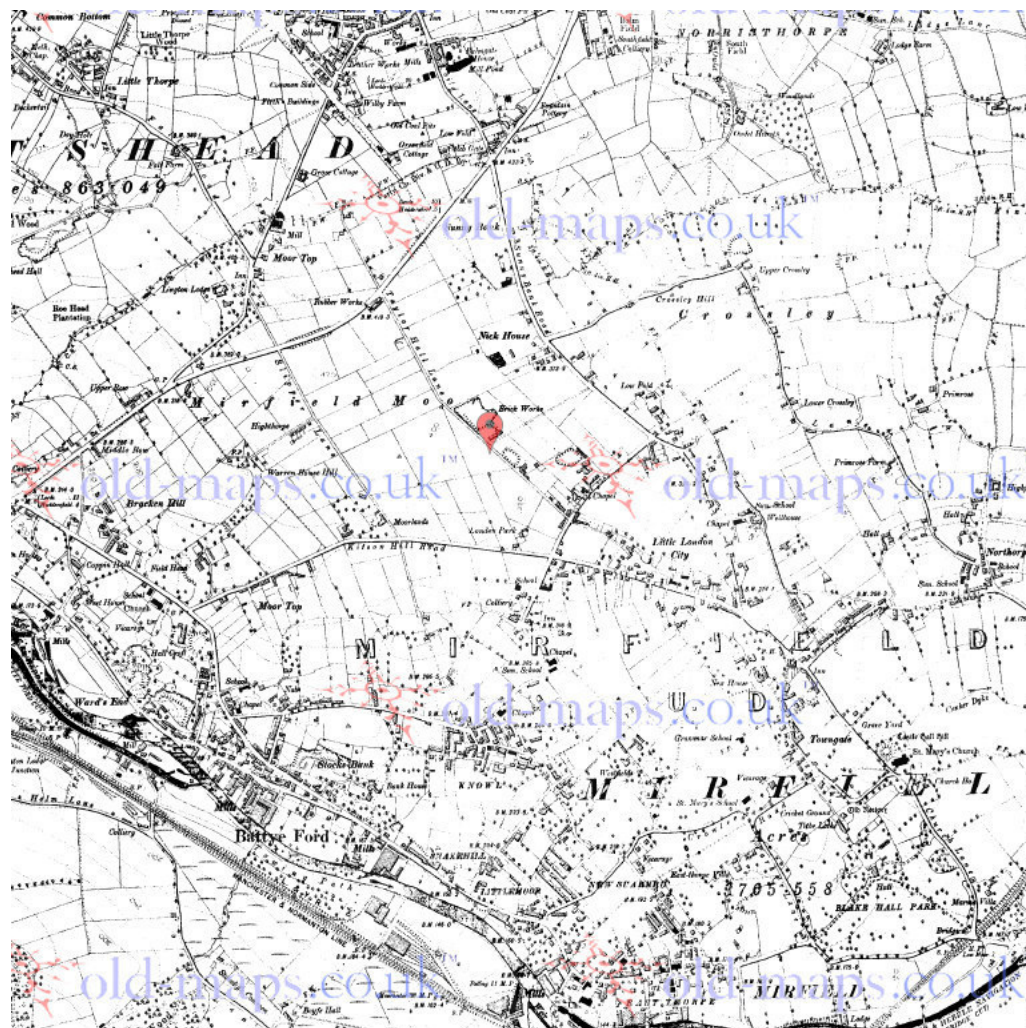
Contract No. CG002Client JOHN ALLEN ASSOCIATESGround Level Location WYK 018 MIFFIELDDate 7/7/93BOREHOLE No. BH2

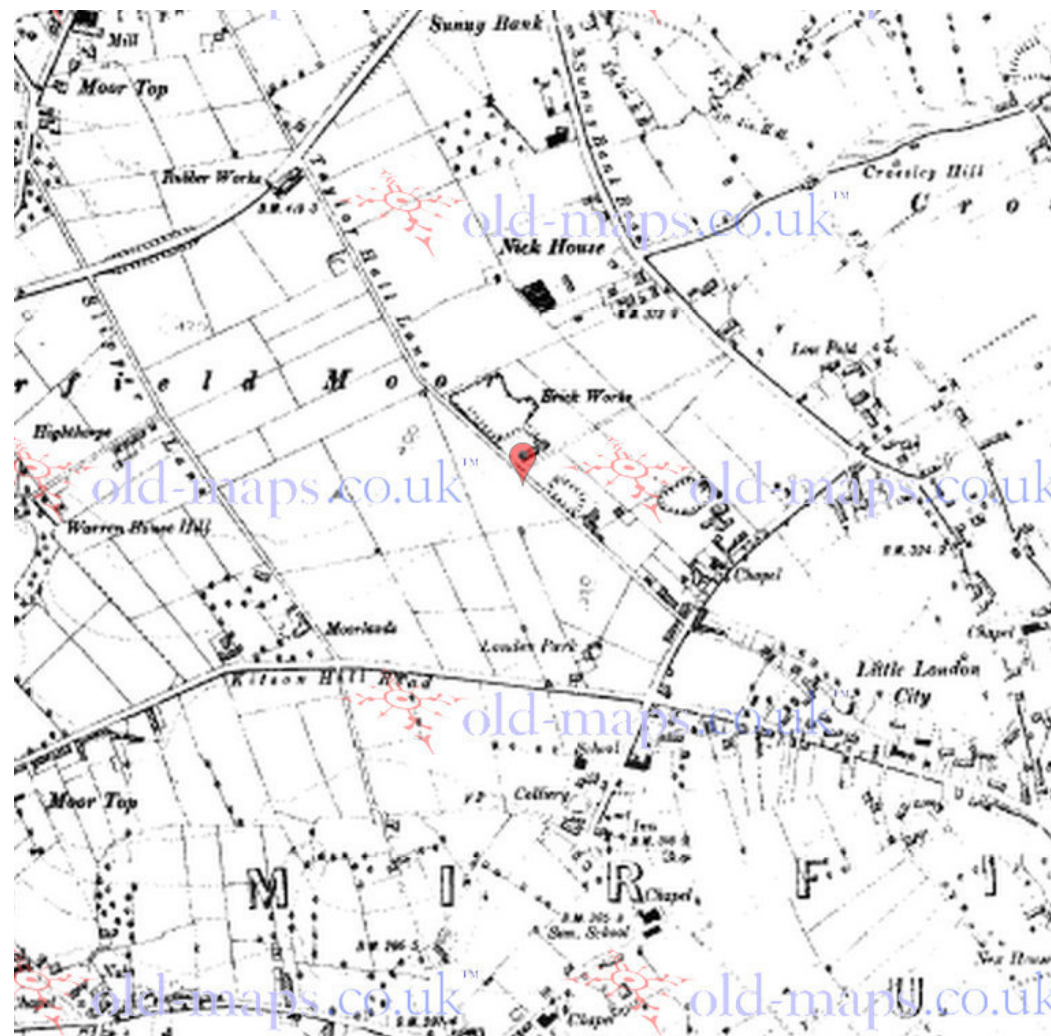
Depth	Thick- ness	Legend	Description of Strata	Type of Sample	C kN/m ²	M %	Ø	Density Kg/m ³	N
0.15	0.15		TOPSOIL						
	1.35		VERY LOOSE FINE BLACK AND RED KILN ASH AND BUILDERS RUBBLE	SPT 0.45					3
1.50				SPT 1.50					0
	1.00		VERY LOOSE FILL MATERIAL - NO RETURN FROM SHELL	SPT 2.00					0
2.50				SPT 2.50					2
	3.80		LOOSE TO MEDIUM DENSE QUARRY SANDSTONE RUBBLE BACKFILL.	SPT 4.00					5
				SPT 5.50					14
6.30				SPT 6.30					
6.50	0.20		MED. BROWN SANDSTONE						

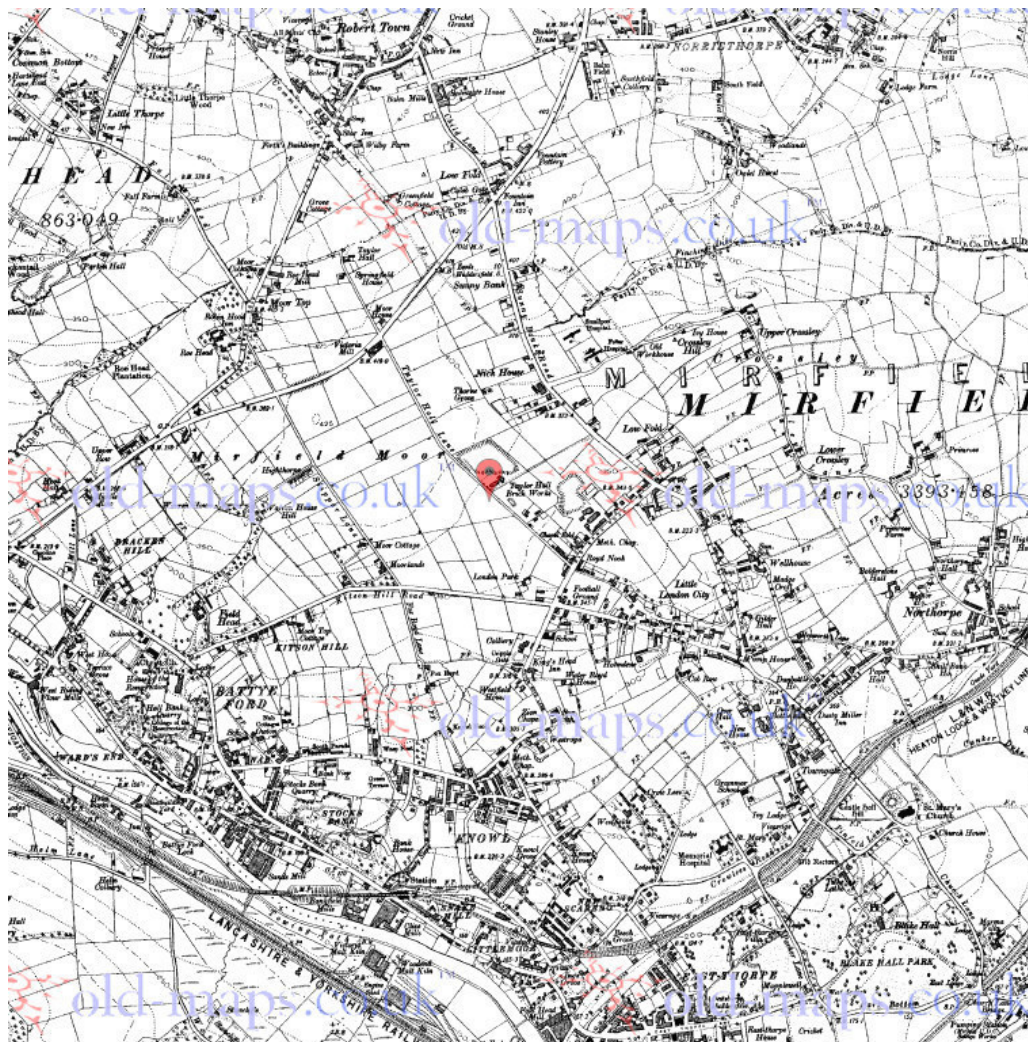
80 BLOWS FOR
FEET 125 MM.Water Struck at 1.00mStanding Water Level 1.00m

Appendix D

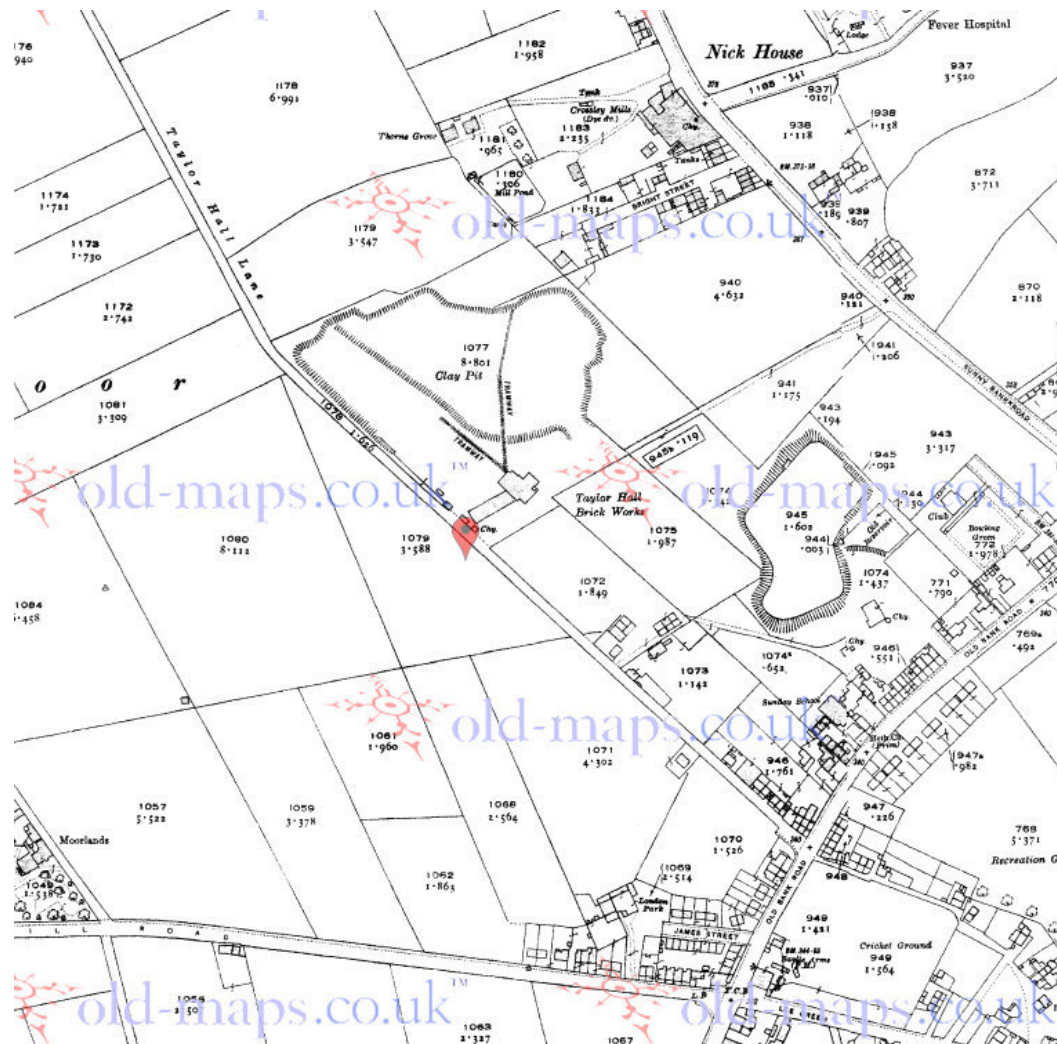




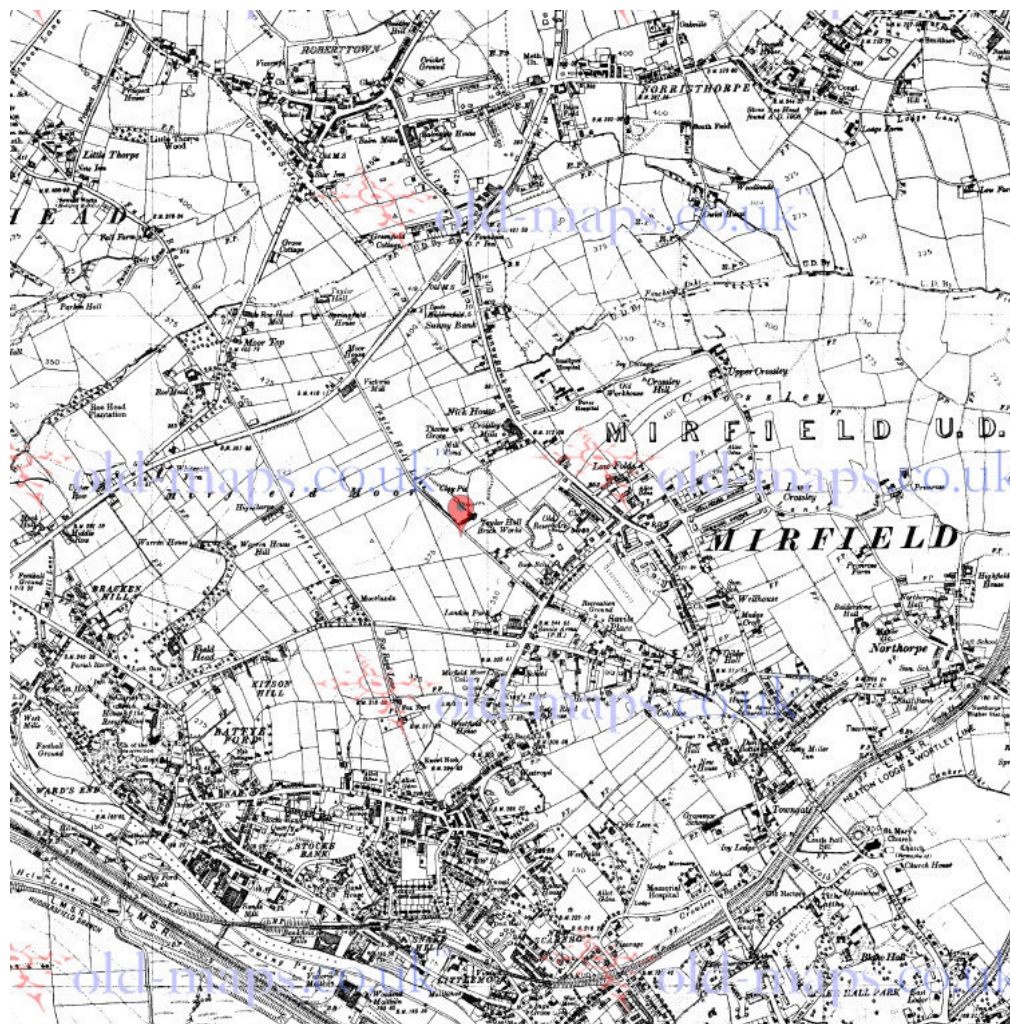


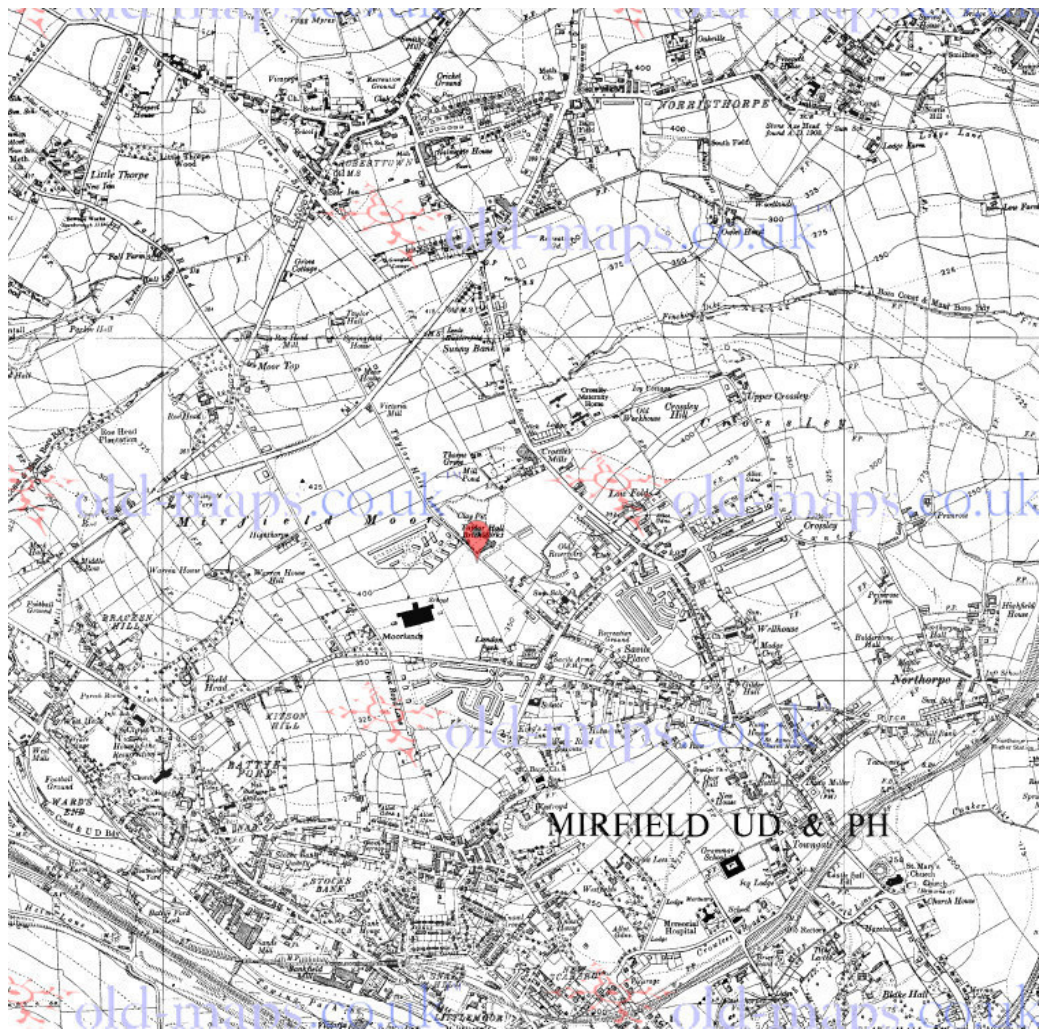


1908



1933





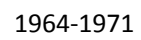
1955-1956

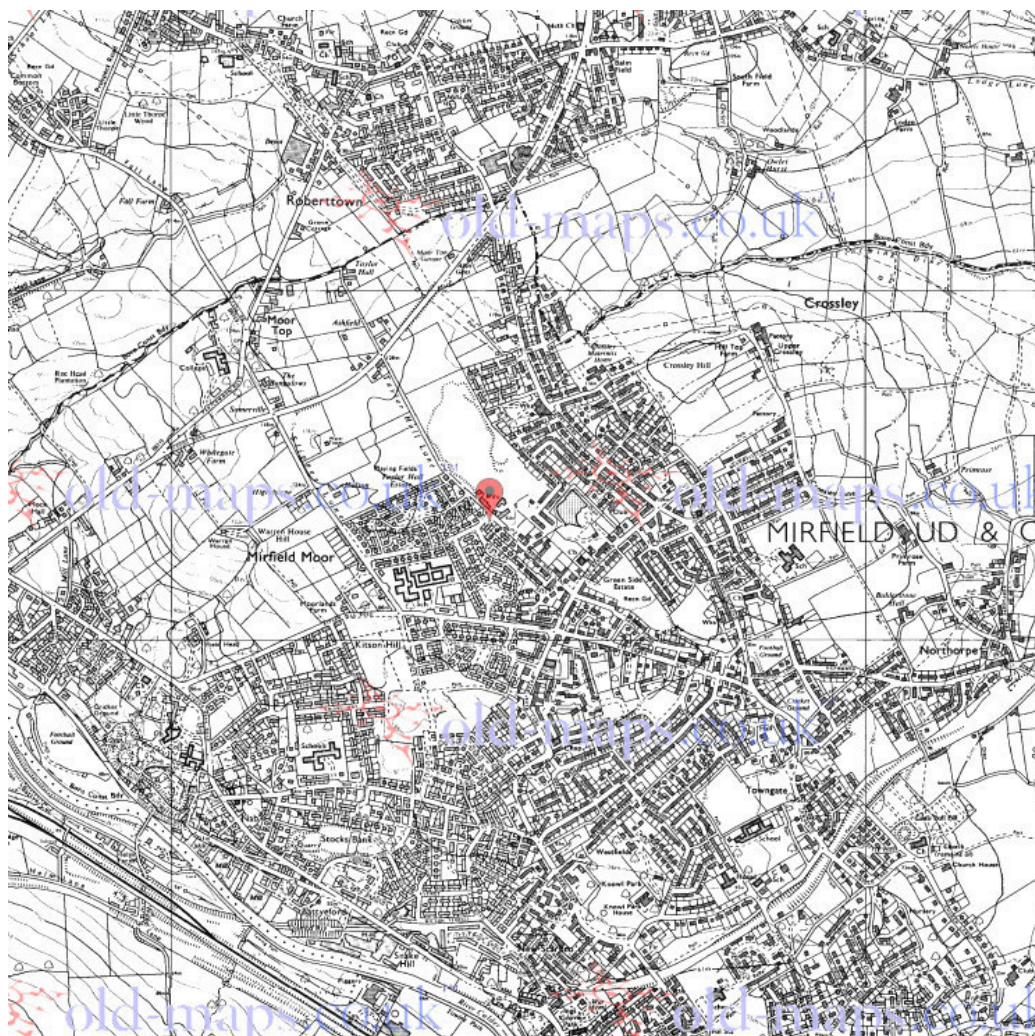


1958

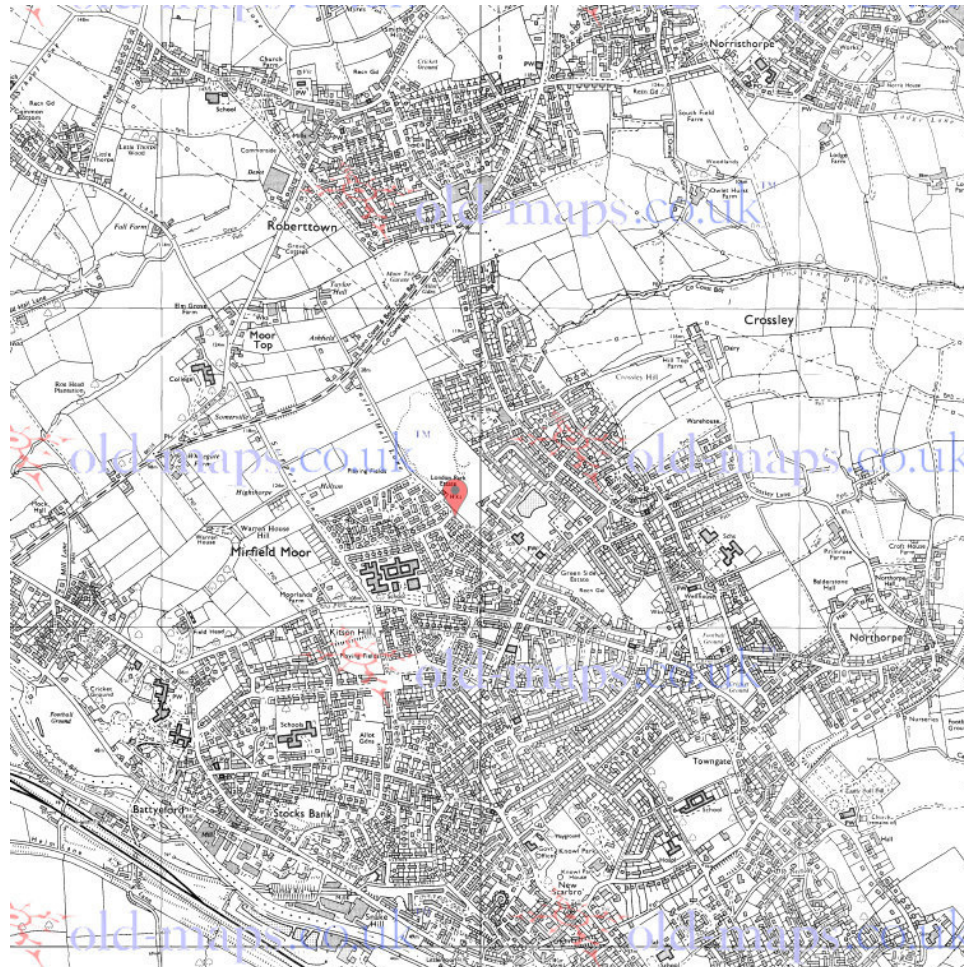


1963-1966





1974-1983



1988-1993