Consultants

Coal Mining Report

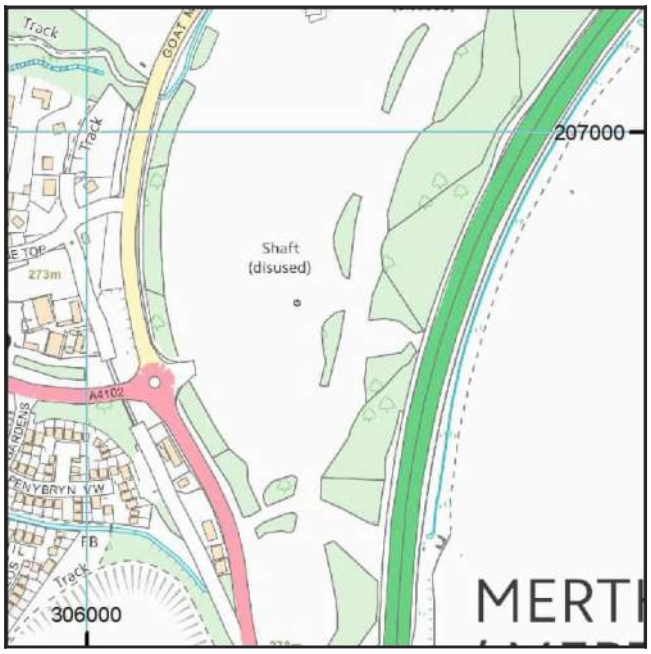
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

WSP UK LTD

Enquiry address

Goat Mill Road
Merthyr Tydfil



Approximate position of property

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How to contact us

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+44 (0)1623 637 000 (International)

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Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

@coalauthority
/company/the-coal-authority
/thecoalauthority
/thecoalauthority

Section 1 – Mining activity and geology

Past underground mining
No past mining recorded.

Probable unrecorded shallow workings
Yes.

Spine roadways at shallow depth

Distance to spine roadway (m)	Direction to spine roadway
Within	N/A

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	305206-022	305997 206711		Coal	
Adit	306206-004	306092 206525	This mine netry may have been partially or wholly excavated during past opencast mining	Ironstone	
Adit	306206-005	306106 206776		Coal	
Adit	306206-006	306120 206856	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Shaft	306206-007	306201 206346	This shaft is recorded to have RSJ girders across the shaft. There is no record of the shaft being filled.	Coal	
Shaft	306206-008	306192 206741	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Shaft	306206-009	306224 206819	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Adit	306206-010	306285 206523	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Shaft	306206-014	306389 206875	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Adit	306206-030	306145 206464	This Adit entrance was sealed off at some time in the past. There are no details on the construction of the seal.	Limestone	
Shaft	306206-067	306264 206810	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Adit	306206-074	306328 206593	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Adit	306206-083	306311 206990	This mine entry may have been partially or wholly excavated during past opencast mining	Ironstone	
Shaft	306206-087	306311 206501	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Shaft	306206-088	306309 206441	This mine entry may have been partially or wholly excavated during past opencast mining	Coal	
Adit	306207-018	306199 207280		Ironstone	
Adit	306207-019	306116 207186		Coal	
Shaft	306207-032	306431 207003	This mine entry may have been partially or wholly excavated during past opencast mining	Ironstone	
Adit	306207-077	306329 207301		Coal	

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Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	306207-078	306089 207148		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

17930	SWR1592	837
SWR2500	SWT3850	6298
16532	SWR2509	SWR3103

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
LOWER 7FT BOTTOM LEAF	Coal	Yes	Within	N/A	216
LOWER 7FT BOTTOM LEAF	Coal	Yes	Within	N/A	224
UPPER SEVEN FOOT	Coal	Yes	Within	N/A	180
UPPER SEVEN FOOT	Coal	Yes	Within	N/A	210

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the “Summary of findings” map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

Distance to site investigation (m)	Direction
1.8	North

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

Section 46 notices
No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices
The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land
The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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Appendix C.3

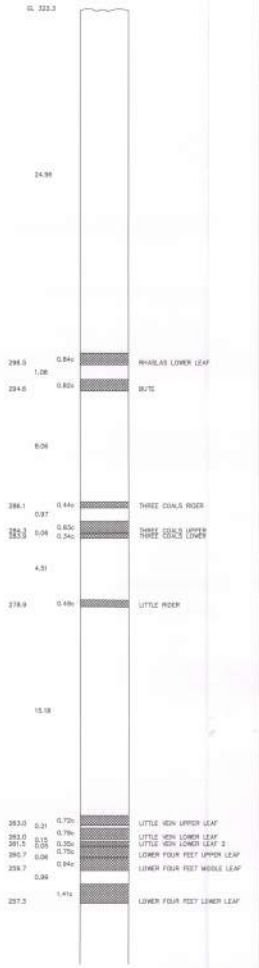
ABANDONMENT PLANS

Public



Vertical Sections

At 306560E 207000N



Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF WATER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 15 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 123 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 125.9 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Weldline to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Rhoose Middle
- Rhoose Lower
- Bute
- Three Coals Rider
- Three Coals Upper
- Three Coals Lower
- Little Rider
- Little Seam Upper Leaf
- Little Seam Lower Leaf 1
- Little Seam Lower Leaf 2
- Lower Four Feet Upper Leaf
- Lower Four Feet Middle Leaf 1
- Lower Four Feet Middle Leaf 2
- Lower Four Feet Lower Leaf

NOTES

Shafts (Dl etc.) Refer to Shaft Register
Site Bench Mark E N L

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Tip
AFTER RESTORATION Industrial / Road
DETAILS OF OVERBURDEN Mudstones overlaid by clay
DETAILS OF BACKFILL
NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED
COALING COMMENCED
COALING COMPLETED 22-12-98
PLANS ISSUED

17930/1

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME
Great White Tip

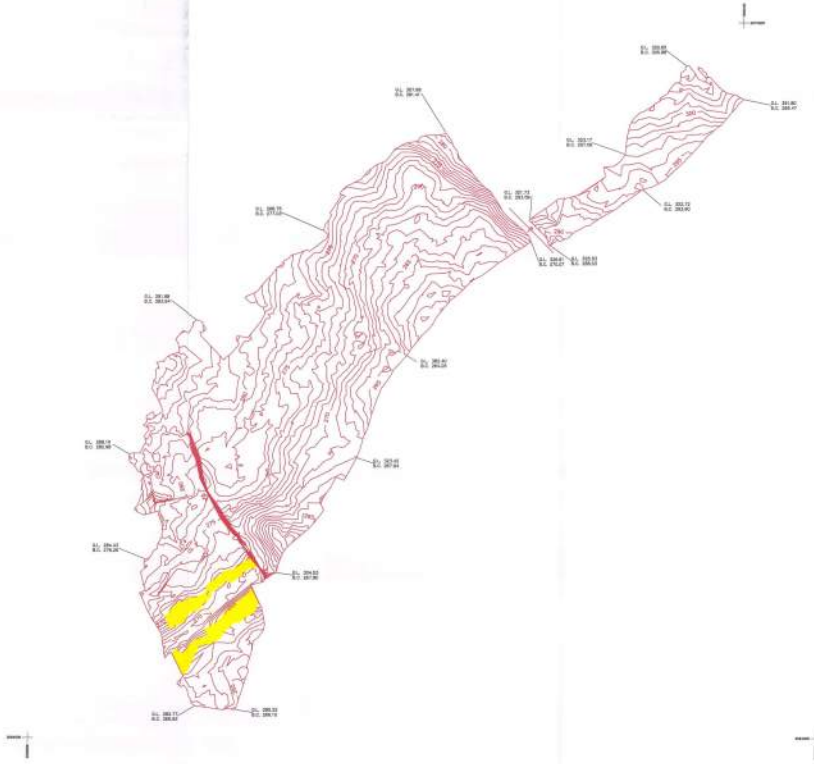
TITLE
Completion Plan

COUNTY	DISTRICT	CIVIL PARISH
LOCATION: East of Merthyr Tydfil		

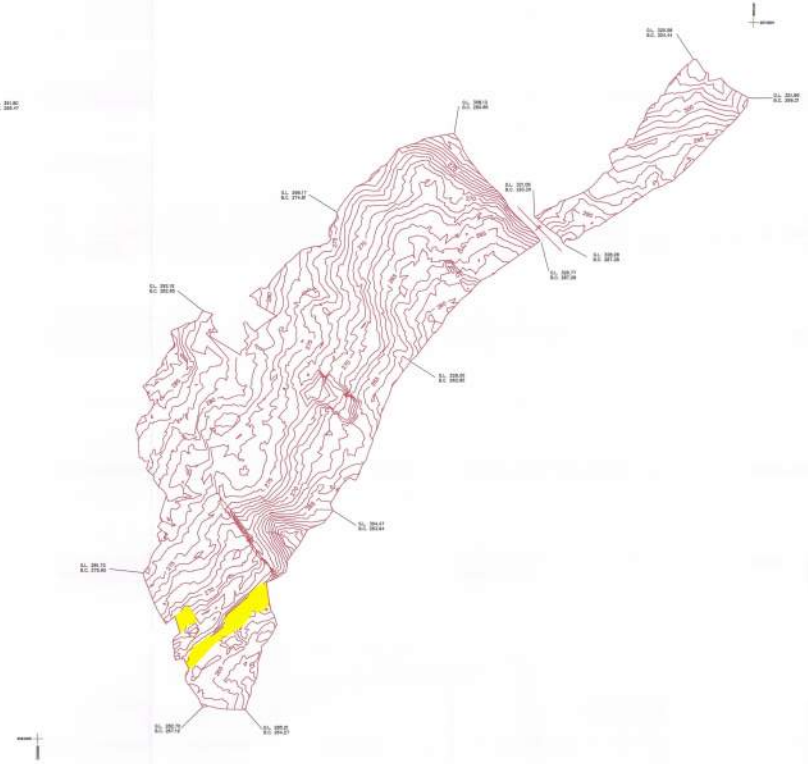
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Checked by Date
Scale 1 : 2500 Sheet 1 of 3
Drawing No. 7SC0379 Contract Drawing No.



Lower Four Feet Seam Upper Leaf



Lower Four Feet Seam Middle Leaf

Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- BOTTOM COAL CONTOUR (Seam Colour)
- GL. 123.4 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Rhondda Middle
- Rhondda Lower
- Bute
- Three Coals Rider
- Three Coals Upper
- Three Coals Lower
- Little Rider
- Little Seam Upper Leaf
- Little Seam Lower Leaf 1
- Little Seam Lower Leaf 2
- Lower Four Feet Upper Leaf
- Lower Four Feet Middle Leaf 1
- Lower Four Feet Middle Leaf 2
- Lower Four Feet Lower Leaf

NOTES

Shafts (SI etc.) Refer to Shaft Register
Site Bench Mark E N L

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Tip

AFTER RESTORATION Industrial / Road

DETAILS OF OVERBURDEN Mudstones overlaid by stag

DETAILS OF BACKFILL

NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED
COALING COMMENCED
COALING COMPLETED 22-03-96
PLANS ISSUED

17930/2.

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME
Great White Tip

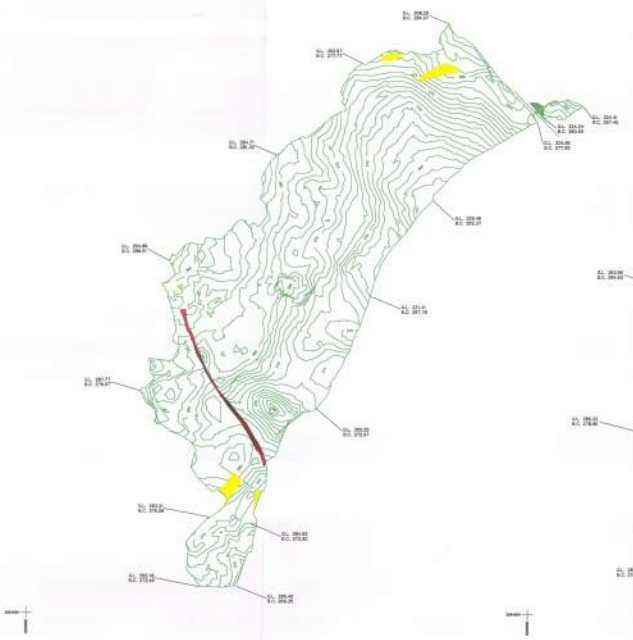
TITLE
Completion Plan

COUNTY	DISTRICT	CIVIL PARISH
LOCATION East of Merthyr Tydfil		

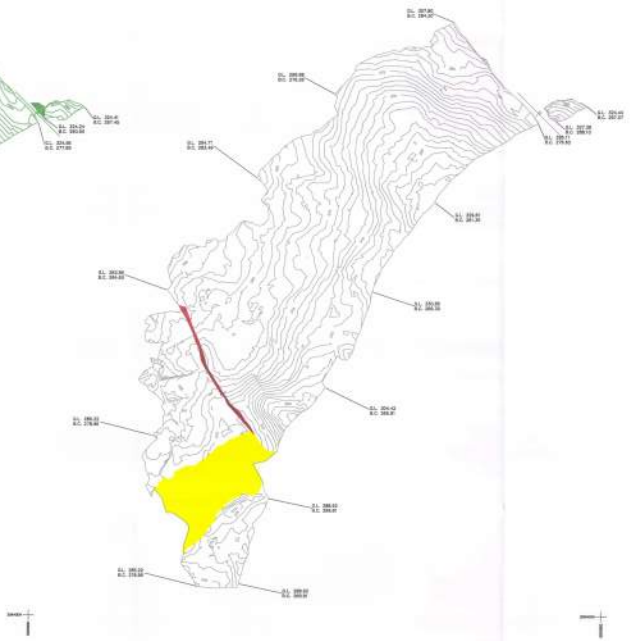
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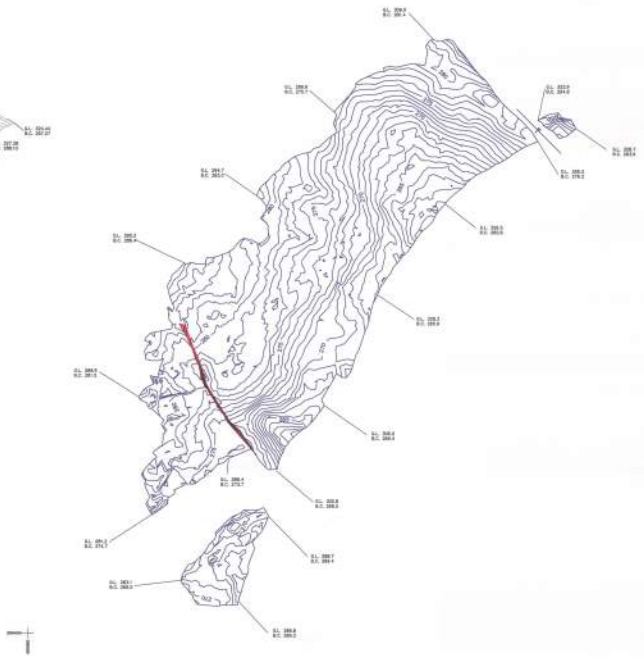
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Drawing No. 7SC0380C
Contract Drawing No.



Little Seam Upper Leaf



Little Seam Lower Leaf 1



Little Seam Lower Leaf 2

Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 123.8 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Pinxton Middle
- Pinxton Lower
- Bute
- Three Coals Rider
- Three Coals Upper
- Three Coals Lower
- Little Rider
- Little Seam Upper Leaf
- Little Seam Lower Leaf 1
- Little Seam Lower Leaf 2
- Lower Four Feet Upper Leaf
- Lower Four Feet Middle Leaf 1
- Lower Four Feet Middle Leaf 2
- Lower Four Feet Lower Leaf

NOTES

Shafts (SI etc.) Refer to Shaft Register
Site Bench Mark — E — N — L

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Tip
AFTER RESTORATION Industrial / Wood
DETAILS OF OVERBURDEN Mudstones overlaid by drag
DETAILS OF BACKFILL
NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED
COALING COMMENCED
COALING COMPLETED 22-03-96
PLANS ISSUED

17930/3

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME
Great White Tip

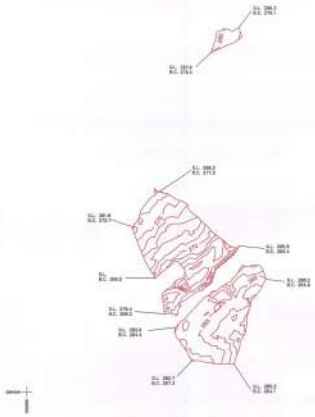
TITLE
Completion Plan

COUNTY	DISTRICT	CIVIL PARISH
LOCATION: East of Merthyr Tydfil		

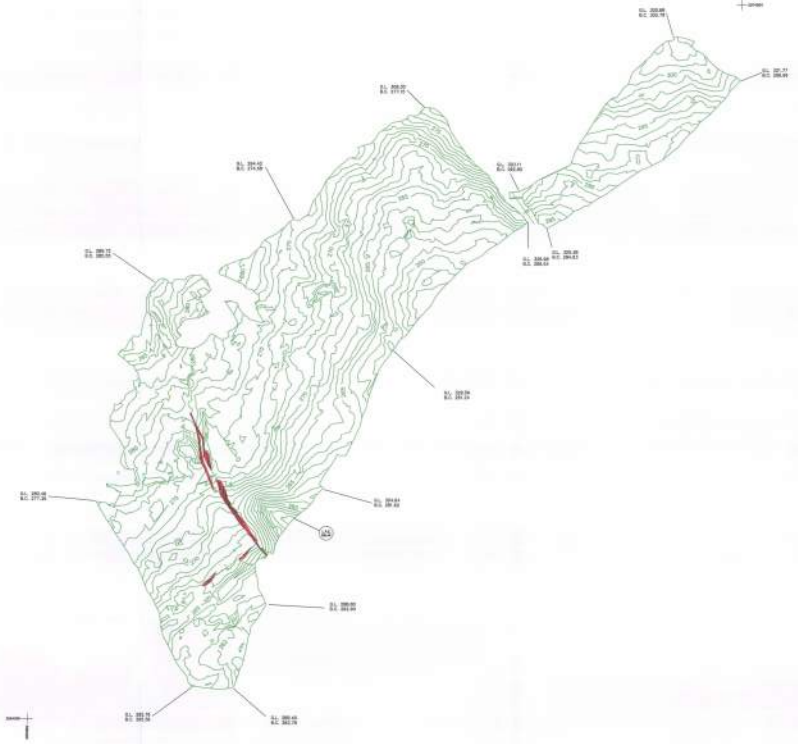
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Contract Drawing No.



Lower Four Feet Middle Leaf 2



Lower Four Feet Seam Lower Leaf

Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 13 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 122 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 135.9 / B.C. 124.3 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Rhondda Middle
- Rhondda Lower
- Bute
- Three Quets Rider
- Three Quets Upper
- Three Quets Lower
- Little Rider
- Little Seam Upper Leaf
- Little Seam Lower Leaf 1
- Little Seam Lower Leaf 2
- Lower Four Feet Upper Leaf
- Lower Four Feet Middle Leaf 1
- Lower Four Feet Middle Leaf 2
- Lower Four Feet Lower Leaf

NOTES

Shafts (SI etc.) Refer to Shaft Register
Site Bench Mark E N L

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Tip
AFTER RESTORATION Industrial / Road
DETAILS OF OVERBURDEN Mudstones overlaid by slag
DETAILS OF BACKFILL
NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED
COALING COMMENCED
COALING COMPLETED 22-03-96
PLANS ISSUED

17930/4

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX

SITE NAME
Great White Tip

TITLE
Completion Plan

COUNTY	DISTRICT	CIVIL PARISH

LOCATION
East of Merthyr Tydfil

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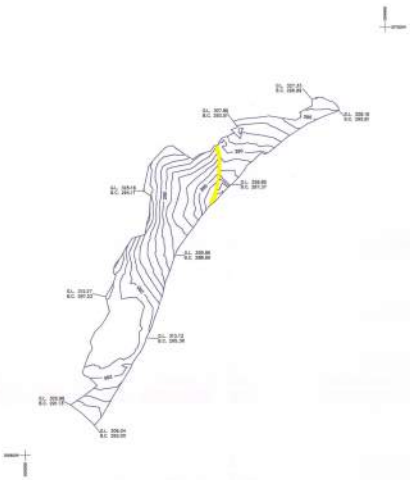
RHASLAS MIDDLE LEAF



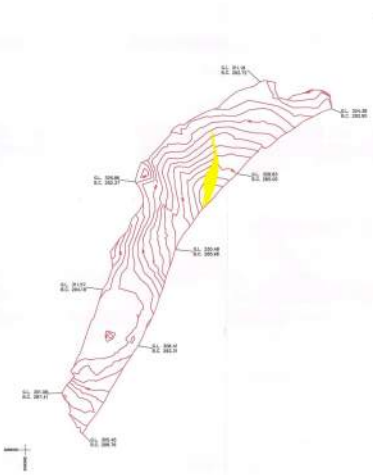
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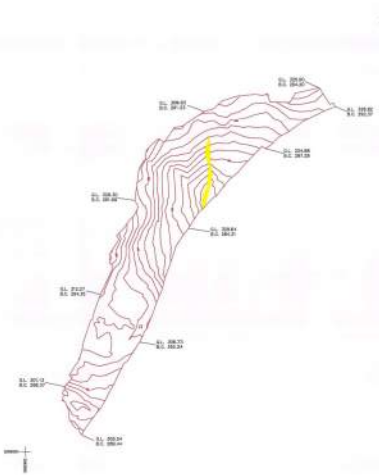
BUTE SEAM



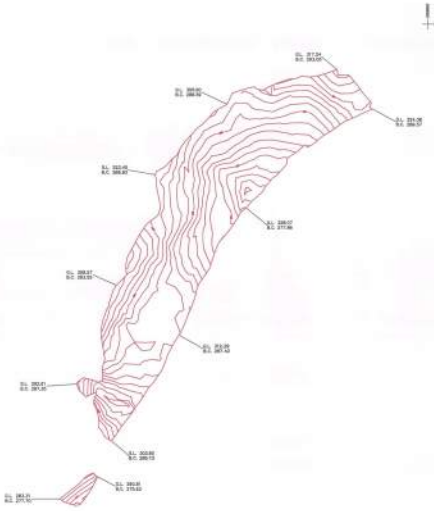
THREE COALS RIDER



THREE COALS UPPER LEAF



THREE COALS LOWER LEAF



LITTLE SEAM RIDER

Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- 15 / 1 — FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- 120 — BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 123.4 / B.C. 124.2 — GROUND LEVEL (Metres) / BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

- Rhaslas Middle
- Rhaslas Lower
- Bute
- Three Coals Rider
- Three Coals Upper
- Three Coals Lower
- Little Rider
- Little Seam Upper Leaf
- Little Seam Lower Leaf 1
- Little Seam Lower Leaf 2
- Lower Four Feet Upper Leaf
- Lower Four Feet Middle Leaf 1
- Lower Four Feet Middle Leaf 2
- Lower Four Feet Lower Leaf

NOTES

Shafts (SI etc.) Refer to Shaft Register
Site Bench Mark E N L

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Tip
AFTER RESTORATION Industrial / Road
DETAILS OF OVERBURDEN Mudstones overlaid by slag
DETAILS OF BACKFILL
NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED
COALING COMMENCED
COALING COMPLETED 22-03-98
PLANS ISSUED

17930/5.

CELTIC ENERGY LIMITED
Heol Ty Aberaman, Aberaman, Aberdare, Mid Glam CF44 6LX.

SITE NAME
Great White Tip

TITLE
Completion Plan

COUNTY	DISTRICT	CIVIL PARISH
LOCATION: East of Merthyr Tydfil		

G.S. SHEETS USED Prefix

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Drawn by DJP Date 1-7-98
Checked by: Date
Scale 1 : 2500 Sheet 1 of 2
Drawing No. 7SC0380A
Contract Drawing No.



Vertical Sections

Section Position
305900E 206700N



Legend

- SITE BOUNDARY (Centre of symbol to be taken as boundary of site)
- PERIMETER OF BATTER
- POSITION OF KNOWN OR SUSPECTED SHAFT
- POSITION OF KNOWN OR SUSPECTED ADIT
- FAULT (Throw in Metres, Seam Colour)
- WASHOUT
- AREA OF NO COAL
- OLD WORKINGS (Seam Colour)
- BOTTOM COAL CONTOUR (Seam Colour)
- G.L. 126.6 B.C. 124.3 — GROUND LEVEL (Metres) BOTTOM OF COAL LEVEL (Metres) (Relative to Newlyn Datum)
- LOWEST POINT OF EXCAVATION (Metres) (Relative to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

Little Seam Rider — Lower Four Feet Middle
Little Seam Upper — Lower Four Feet Middle Leaf 2
Little Seam Lower — Lower Four Feet Lower
Lower Four Feet Upper — Lower Four Feet Lower Leaf 2

NOTES

Shafts (Et etc.) Refer to Shaft Register

Site Bench Mark — E 306508, N 206772, L 269.75

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Industrial

AFTER RESTORATION Amenity & Housing

DETAILS OF OVERBURDEN Mudstones overlain by glacial drift & its material

DETAILS OF BACKFILL As above

NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED

COALING COMMENCED 27th January 1992

COALING COMPLETED 10th September 1993

PLANS ISSUED 23rd September 1994

16532

BRITISH COAL OPENCAST
Headquarters, 200 Lichfield Lane,
Mansfield, Notts. NG18 4RG

SITE NAME
Incline Top
East Merthyr Rec. Phase 1

TITLE
Completion Plan

COUNTY	DISTRICT	COAL PARISH
Mid Glamorgan	Merthyr Tydfil	Merthyr Tydfil

LOCATION
0.5 Mile east of Merthyr Tydfil town centre

O.S. SHEETS USED — Pt/SS 00

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Drawn by D.J.P. Date 1-12-1993
Checked by CJR Date Sept 1994
Scale 1:2500 Sheet 1 of 2
Drawing No. CP2634A
Contract Drawing No.



Little Seam Rider

Seam 6.3% Old Workings By Area



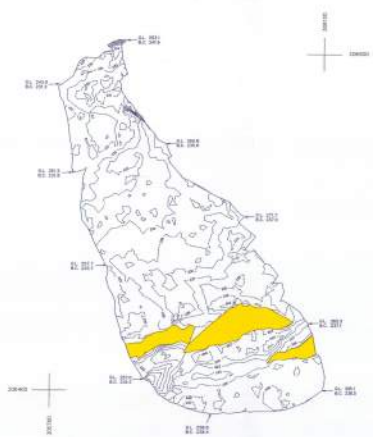
Little Seam Upper

Seam 31.7% Old Workings By Area



Little Seam Lower

Seam 35.3% Old Workings By Area



Lower Four Feet Upper

Seam 43.7% Old Workings By Area



Lower Four Feet Middle

Seam 43.5% Old Workings By Area



Lower Four Feet Middle Leaf 2



Lower Four Feet Lower

Seam 65.4% Old Workings By Area



Lower Four Feet Lower Leaf 2

Seam 49.0% Old Workings By Area

Legend

SITE BOUNDARY (Centre of symbol to be taken as boundary of site)

PERIMETER OF BATTER

POSITION OF KNOWN OR SUSPECTED SHAFT

POSITION OF KNOWN OR SUSPECTED ADIT

FAULT (Throw in Metres, Seam Colour)

WASHOUT

AREA OF NO COAL

OLD WORKINGS (Seam Colour)

BOTTOM COAL CONTOUR (Seam Colour)

GROUND LEVEL (Metres)
BOTTOM OF COAL LEVEL (Metres)
(Relative to Newlyn Datum)

LOWEST POINT OF EXCAVATION (Metres)
(Relative to Newlyn Datum)

AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER

Little Seam Rider — Lower Four Feet Middle
Little Seam Upper — Lower Four Feet Middle Leaf 2
Little Seam Lower — Lower Four Feet Lower
Lower Four Feet Upper — Lower Four Feet Lower Leaf 2

NOTES

Shafts (SI etc.) Refer to Shaft Register

Site Bench Mark	E	N	L
	306006	206772	314.75

LAND TYPE AND USAGE

BEFORE OPERATIONS Derelict Industrial

AFTER RESTORATION Amenity & Housing

DETAILS OF OVERBURDEN Mudstones overlain by glacial drift & by material

DETAILS OF BACKFILL As above

NATURE OF COAL Bituminous

OPERATIONAL DATES

AUTHORISED

COALING COMMENCED 27th January 1992

COALING COMPLETED 10th September 1993

PLANS ISSUED 27th September 1994

16532

BRITISH COAL OPENCAST
South Wales Region, Heol Ty Abercynon, Abercynon, Aberdare, Mid Glamorgan CF44 8LX

SITE NAME
Incline Top
East Merthyr Rec. Phase 1

TITLE
Completion Plan

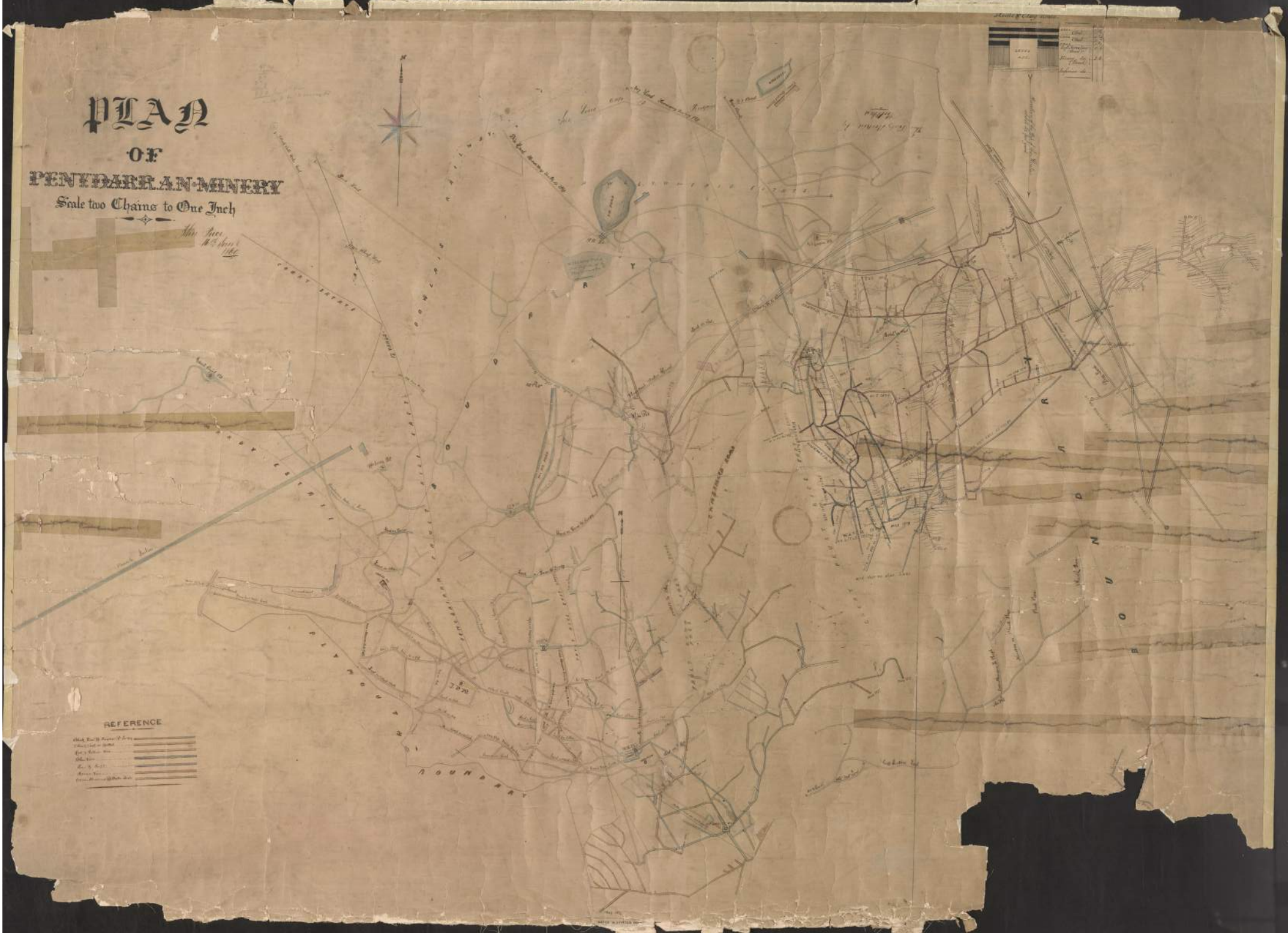
COUNTY	DISTRICT	CIVIL PARISH
Mid Glamorgan	Merthyr Tydfil	Merthyr Tydfil

LOCATION
0.8 Km east of Merthyr Tydfil town centre

O.S. SHEETS USED: Plotts 131

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Drawn by D.J.R. Date 1-12-1993
Checked by CJB Date Sept 1994
Scale 1:2500 Sheet 1 of 2
Drawing No. CP2634B
Contract Drawing No.


PLAN
OF
PENYDARRAN MINERY
Scale two Chains to One Inch
REFERENCE

Appendix D

HISTORIC BGS BOREHOLES

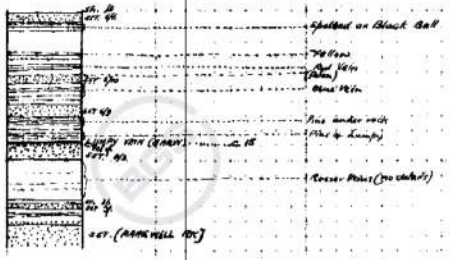
Public

British Geological Survey

BGS ID: 259487 : BGS Reference: SO00NE72
British National Grid (27700) : 306300,207000

STRATA BETWEEN THE LOWER 4-FT. COAL AND FAREWELL ROCK AT DOWLAIS. SO 00 NE 72 063 070

231/34



Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259466 : BGS Reference: SO00NE53
British National Grid (27700) : 306360,206310

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Record of Borehole LN3

Tip name & No Longtown 724 1" : 25"

Contractor Drilling & Prospecting International Ltd.

Drill type Gryphon 5

Method of penetration Rotary Air Flush

Elevation AOD 303.92 m Grid reference E 306360 N 206314

Date started 13.11.75 Date completed 3.12.75

Borehole			Casing		
From	To	Ømm	From	To	Ømm
0.00	23.50	143.0	0.00	23.50	13.95
23.50	31.00	120.6	0.00	31.00	114.3
31.00	45.30	100.0			

SO 00 NE /53

Date	Depth m From	To	Sample R	RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
	0.00	0.50	*							0.00 – 14.00m: SPOIL (Run of Mine)
	0.50	1.00	U100	3460		1				1.00 (JAR SAMPLE) loose GRAVEL with some sandy SILT
	1.00	1.50	*							
	1.50	2.00	U100	3461		2				2.00 (JAR SAMPLE) loose GRAVEL with some sandy clayey SILT
	2.00	2.50	*							
	2.50	3.00	U100	3462		3				3.00 (JAR SAMPLE) loose GRAVEL with some soft silty SAND
	3.00	3.50	*							
	3.50	4.00	U100	3463		4				4.00 (JAR SAMPLE) loose GRAVEL with some soft clayey, silty SAND
	4.00	4.50	U100	3464						4.50 (JAR SAMPLE)soft, gravelly, silty SAND
	4.50	5.00	U100	3470		5				5.00 (JAR SAMPLE) soft, gravelly, silty SAND
	5.00	5.50	U100	3471						5.50 (JAR SAMPLE) loose GRAVEL of silty mudstone
	5.50	6.00	U100	3474		6				6.00 (JAR SAMPLE) loose GRAVEL of siltstone
	6.00	6.50	U100	3475						6.50 (JAR SAMPLE) loose GRAVEL with some soft, clayey, silty SAND
13/11	6.50	7.00	U100	3478		7				7.00 (JAR SAMPLE) soft, gravelly, silty SAND
	7.00	7.50	U100	3479						7.50 (JAR SAMPLE) soft, gravelly, silty SAND
	7.50	8.00	U100	3482		8				8.00 (JAR SAMPLE) soft to firm clayey, silty SAND with some fine GRAVEL
	8.00	8.50	U100	3483						8.50 (JAR SAMPLE) soft to firm silty SAND with GRAVEL
	8.50	9.00	U100	3486		9				9.00 (JAR SAMPLE) soft to firm silty SAND with GRAVEL
	9.00	9.50	U100	3487						9.50 (JAR SAMPLE) firm, clayey, silty SAND with some GRAVEL
	9.50	10.00	U100	3490		10				

Morning water levels

Date	14.11	17.11	18.11	19.11	20.11	21.11	24.11
BH Depth	7.50	12.00	18.00	21.90	21.90	25.00	27.90
Casing	–	–	14.00	16.25	19.40	22.50	23.50
Water	Dry	Dry	17.50	17.00	18.50	24.00	Damp

⊗ Water encountered here

▽ Water of ref x rose to here

* failure to take U100

Logged by G.D. Date December 1975

Sir William Halcrow & Partners

Sheet 1 of 5

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259466 : BGS Reference: SO00NE53
British National Grid (27700) : 306360,206310

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Record of Borehole LN 3

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 5
Method of penetration Rotary Air Flush
Elevation AOD m Grid reference E N
Date started Date completed

Borehole			Casing		
From	To	8mm	From	To	8mm

SO 00 NE /53

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
	10.00	10.50	U100	3491						10.00 (JAR SAMPLE) soft to firm silty SAND with GRAVEL
										10.50 (JAR SAMPLE) soft SAND and GRAVEL with some SILT
	10.50	11.50	Open	Hole		11				
14/11	11.50	12.00	U100	3494						12.00 (JAR SAMPLE) firm silty SAND and GRAVEL
	12.00	12.50	*			12				
	12.50	13.00	U100	3497						13.00 (JAR SAMPLE) loose GRAVEL with some SAND and SILT
	13.00	14.00	Open	Hole		13				
										14.0 - 15.10m: loose COBBLES and GRAVEL with some silty SAND (SPOIL: Run of Mine)
	14.00	15.60	80	Core		14				
										15.10 - 16.50m: medium dense, sandy SILT with some GRAVEL (SPOIL: Run of Mine)
	15.60	16.50	80	Core		15				
						16				
									⊗16.5	16.50 - 16.75m: (approx) SPOIL
										16.75 (approx) - 17.00m: MANTLE
	16.50	17.00	U100	5603		17	287.17			17.00 (JAR SAMPLE) dark brown, soft, clayey SILT with some SAND and fine sub-angular GRAVEL
17/11	17.00	18.00	100							17.00 - 23.8m: dark brown to dark grey, soft to stiff, dense, compact, damp, sandy, clayey SILT to silty CLAY with varying amounts of GRAVEL and COBBLES including limestone and quartzite some with smoothed and striated faces (MANTLE: Boulder Clay)
						18				
	18.00	19.00	100			19				
	19.00	20.20	100			20				

Morning water levels

Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

* Failure to take U100

Logged by G.D. Date December 1975
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British Geological Survey

BGS ID: 259466 : BGS Reference: SO00NE53
British National Grid (27700) : 306360,206310

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 5
Method of penetration
Elevation AOD m Grid reference E N
Date started Date completed

Record of Borehole LN3

Borehole			Casing		
From	To	Dmm	From	To	Dmm

SO00NE/53

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
	20.20	21.00	75			21				
18/11	21.00	21.90	85			22				
	21.90	23.60	15			23	280.42	3b		
	23.60	23.80	100				280.12			
20/11	23.80	25.00	100	20		24			1.30	23.80 - 25.10m: dark grey, fine grained, thinly laminated, poorly jointed, faintly weathered, SANDSTONE moderately strong to strong, numerous carbonaceous/silty partings, coaly at base
	25.00	26.40	90	10		25				
						26			2.40	25.10 - 27.50m: grey, thinly laminated, well jointed, blocky, faintly weathered MUDSTONE, moderately weak to moderately strong, planty at base
21/11	26.40	27.90	100	0		27			0.40	27.50 - 27.90m: black, soft, broken COAL with shaley partings (Little Seam - Seven Feet)
						28			0.40	27.90 - 28.30m: black, thinly laminated, blocky SHALE moderately strong, with COAL rashings
									0.60	28.30 - 28.90m: grey, weak to very weak, broken, slightly weathered SEATEARTH, listric surfaces, rootlets
	27.90	28.90	90	0		29			.75	28.90 - 29.65m: grey, uneven bedded, moderately well jointed, slightly weathered, SILTY SEATEARTH moderately strong, ironstone nodules, DIP<10
	28.90	29.65	100	30					0.40	29.65 - 30.15m: (only 0.1 recovered) angular gravel of SEATEARTH with some clayey, silty sand - Drillers record loss of air returns (suspected old workings of ironstone)
	29.65	31.25	80	15		30				

Morning water levels

Date	26/11	27/11	28/11
B.H Depth	33.75	34.95	40.80
Casing	26.00	31.00	31.00
Water	Damp	Dry	Dry

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date December 1975
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British Geological Survey

BGS ID: 259466 : BGS Reference: SO00NE53
British National Grid (27700) : 306360,206310

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 5
Method of penetration Rotary Air Flush
Elevation AOD m Grid reference E N
Date started Date completed

Record of Borehole LN3

Borehole			Casing		
From	To	Ømm	From	To	Ømm

SO 00 NE 153

Date	Depth m From	Depth m To	Sample R	Sample RQD	Depth	Level mAOD	Piezo	Water	Description
								0.60	30.15 – 30.75m: grey, uneven bedded, moderately well jointed, slightly weathered SEATEARTH moderately strong, occasional ironstone, listric surfaces
	29.65	31.25	80	15	31			1.40	30.75 – 31.15m: grey, thinly laminated, well jointed, slightly weathered SILTY MUDSTONE, moderately strong
	31.25	32.25	100	15	32				
					33				
24/11	32.25	33.75	100	0					
					34				
26/11	33.75	34.95	100	45					
					35			9.50	31.15 – 40.65m: grey to black, thinly to thickly laminated, sparsly jointed, faintly weathered, mainly SILTSTONE with SANDSTONE and SILTY MUDSTONE horizons, moderately strong to strong, occasional ironstones and plants, thin seatearth at 32.50m, some carbonaceous partings
	34.95	36.45	100	30	36				
					37				
	36.45	37.95	100	7					
					38				
					39				
	37.95	39.45	100	0					
	39.45	40.80	100	30	40				

Morning water levels

Date							
B.H Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date December 1975
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Sheet 4 of 5

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British Geological Survey

BGS ID: 259466 : BGS Reference: SO00NE53
British National Grid (27700) : 306360,206310

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 5
Method of penetration Rotary Air Flush
Elevation AOD m Grid reference E N
Date started Date completed

Record of Borehole LN3

Borehole			Casing		
From	To	8mm	From	To	8mm

SO 00 NE/53

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
							263.82	3a		
27/11	39.45	40.80	100	30		41			0.65	40.65 – 41.50m: black, thinly laminated, high angle parted, fresh COAL very weak, seaty at top
					λ λ				0.80	41.50 – 42.30m: grey, thickly laminated, uneven jointed, fresh SEATEARTH, moderately weak, silty 41.8 – 41.9m numerous listric surfaces and rootlets
	40.80	42.30	100	0	λ	42			0.60	42.30 – 42.90m: black, high angle parted, fresh COAL, very weak
									0.08	42.90 – 42.98m: dark grey, thickly laminated fresh SEATEARTH, very weak
						43			0.32	42.98 – 43.30m: black, thickly laminated, fresh COAL, weak
	42.30	43.80	100	0					0.10	43.30 – 43.40m: black, massive, fresh SEATY SHALE, moderately strong
						44			0.10	43.40 – 43.50m: black, solid, fresh COAL, moderately weak
									0.20	43.50 – 43.70m: black, thinly laminated, brittle SHALEY SEATEARTH moderately strong
					λ λ				1.80	43.70 – 44.50m: black, high angle parted, fresh COAL, very weak
28/11	43.80	45.30	100	10	λ	45	258.62			44.50 – 45.30m: grey to black, thinly laminated, poorly jointed, fresh SEATEARTH, very weak to moderately strong, silty horizons, well preserved plants, listric surfaces. From 40.65 to 44.50 represents the Lower Four Feet Seam (Five Feet - Gellideg)
						46				BOREHOLE COMPLETED AT 45.30m
						47				
						48				
						49				
						50				

Morning water levels

Date							
B.H Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date December 1975
Sir William Halcrow & Partners

Sheet 5 of 5

Contact BGS: ngdc@bgs.ac.uk



1 Capital Quarter
Tyndall Street
Cardiff
CF10 4BZ

wsp.com

PUBLIC

Appendix D

HISTORICAL BGS BOREHOLE LOGS

Public

British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush
Elevation AOD 338.70 m Grid reference E 306677 N 206593
Date started 27.10.75 Date completed 3.11.75

Record of Borehole LN1A

Borehole			Casing		
From	To	Ømm	From	To	Ømm
0.00	12.50	158.7	0.00	12.50	139.7
12.50	70.20	100.0			

SO 00 NE/51A

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
						1 2 3 4 5 6 7 8 9 10				0.00 - 12.50m OPEN HOLE (SPOIL : Ref. LN 1)

Morning water levels

Date	28/10	29/10	30/10	31/10	3/11		
BH Depth	12.50	29.60	45.80	59.35	70.20		
Casing	12.50	12.50	12.50	12.50	12.50		
Water	Dry	Dry	Dry	Dry	66.00		

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November 1975
Sir William Halcrow & Partners

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Record of Borehole LN1A

Borehole			Casing		
From	To	8mm	From	To	8mm

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level m AOD	Piezo	Water	Description
27/10						11				
						12	326.60	Lab		
	12.50	13.00	U100	5434			325.80			12.50 – 12.90m (Approx.) MANTLE
						13				12.90m (Approx.) – 13.00m MUDSTONE 13.00m JAR SAMPLE: grey, broken, very weak to weak MUDSTONE with silty horizons.
	13.00	15.00	75	0		14				13.00 – 14.90m: dark grey, fine grained, thinly bedded becoming thinly laminated, well jointed, slightly to moderately weathered SANDSTONE, strong becoming moderately strong, highly permeable.
	15.00	16.50	100	0		15				14.90 – 16.30m: dark grey, thinly laminated, well jointed, slightly becoming moderately weathered, seatearthy SILTSTONE, weak becoming moderately strong, quartz vein at 15.5m, planty, moderately permeable.
	16.50	18.00	100	25		16				16.30 – 17.70m: dark grey, fine grained, thinly laminated becoming thinly bedded, occasionally jointed, slightly weathered SANDY SEATEARTH moderately weak to strong, occasional listric surfaces, slightly permeable.
	18.00	19.50	100	60		17				17.70 – 19.60m: grey to light grey, fine grained, thinly laminated poorly jointed, faintly weathered SANDSTONE occasional plant becoming rare, strong, fine quartz veining, slightly permeable.
	19.50	21.00	100	0		18				
						19				
						20				

Morning water levels							
Date							
B.H Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November 1975
Sir William Halcrow & Partners

Sheet 2 of 8

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Record of Borehole LN1A

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Borehole			Casing		
From	To	8mm	From	To	8mm

SO 00 NE/51A

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
	19.50	21.00	100	0		20				19.60 – 20.70m: grey, irregularly fractured, poorly jointed, fresh, MUDSTONE, moderately weak, slightly permeable.
	21.00	22.50	100	0		21				20.70 – 24.70m: dark grey to black, thinly laminated, unjointed, fresh, carbonaceous MUDSTONE, weak to moderately weak, strong slickensiding, coaly wisps towards base, poor recovery at base. Believed to represent horizon of Black Pins Soap Vein.
	22.50	24.00	100	0		22				
	24.00	25.50	60	7		23				24.70 – 27.00m: grey, thinly bedded, unjointed, fresh SILTY SEATEARTH moderately weak becoming moderately strong, sphaerosiderite at 24.8m and 26.8m, listric surfaces and plants becoming rare, effectively impermeable.
	25.50	27.00	100	50		24				
	27.00	28.10	100	0		25				27.00 – 46.3m: grey, thinly laminated to thinly bedded, poorly jointed, fresh, SILTSTONE, strong, rare listric surfaces and plants, occasional sandy and muddy horizons, slightly permeable Dip 8°.
28/10	28.10	29.60	95	35		26				
	29.60	30.00	100	0		27				
						28				
						29				
						30				

Morning water levels

Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November, 1975
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Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
British National Grid (27700) : 306680,206590

NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Record of Borehole LN1A

Borehole			Casing		
From	To	8mm	From	To	8mm

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
						30				SO 00 NE/51A
	30.0	31.50	100	10		31				27.00 – 46.30m: grey, thinly laminated to thinly bedded, poorly jointed, fresh, SILTSTONE, strong, rare listric surfaces and plants, occasional sandy and muddy horizons, slightly permeable Dip 8°.
	31.50	33.0	100	40		32				
	33.0	34.50	100	60		33				
	34.50	36.0	100	35		34				
	36.0	37.50	100	7		35				
	37.50	39.00	100	50		36				
	39.00	40.50	100	65		37				
						38				
						39				
						40				

Morning water levels							
Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

Logged by G.D. Date November, 1975.
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Sheet 4 of 8

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British Geological Survey

BGS ID: 259462 : BGS Reference: SO00NE51/A
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NATIONAL COAL BOARD - SOUTH WALES & SOMERSET

Appendix H

Record of Borehole LN1A

Tip name & No Longtown 724
Contractor Drilling & Prospecting International Ltd.
Drill type Gryphon 10
Method of penetration Air Flush
Elevation AOD m Grid reference E N
Date started 27.10.75 Date completed 3.11.75

Borehole			Casing		
From	To	Ømm	From	To	Ømm

Date	Depth m From	Depth m To	Sample R	Sample RQD	Legend	Depth	Level mAOD	Piezo	Water	Description
	39.00	40.50	100	65						27.00 – 46.30m: grey, thinly laminated to thinly bedded, poorly jointed, fresh, SILTSTONE, strong, rare listric surfaces and plants, occasional sandy and muddy horizons, slightly permeable, Dip 8°.
	40.50	42.00	90	65		41				
	42.00	43.50	100	35		42				
	43.50	44.30	100	20		43				
	44.30	45.80	95	15		44				
	45.80	46.90	80	30		45				
29/10	46.90	48.40	100	50		46				46.30 – 51.30m: light grey to grey, thinly laminated, occasional false bedding, mod. wide joints, fresh SANDSTONE, strong to very strong, carbonaceous and silty partings, coal rashing at 48m, fine quartz veining at top.
	48.40	49.70	95	50		47				
						48				
						49				
						50				

Morning water levels							
Date							
BH Depth							
Casing							
Water							

⊗ Water encountered here
▽ Water of ref x rose to here

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