

**MINING RISK ASSESSMENT
REPORT:**
Land at Six Bells Estate
Heolgerrig
Merthyr Tydfil

Prepared for:
Mr & Mrs David Lea

June 2015

Job No: 13257

REPORT TITLE : Mining Risk Assessment
Report: Land at Six Bells Estate,
Heolgerrig, Merthyr Tydfil

REPORT STATUS : Final

JOB NUMBER : 13257

DATE : June 2015

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Executive Summary

Mr and Mrs David Lea are proposing the construction of a single dwelling on land off Six Bells Estate, Heolgerrig.

The site has remained undeveloped throughout recorded history.

Geologically, the site is underlain by rocks of the Lower Coal Measures, which are Carboniferous in age.

The conjectural outcrops of the Five-Feet and the Gellideg coal seams are present just northeast of the site. These seams dip towards the southwest and will underlie the site at shallow depth.

The Five-Feet-Six (lower leaf of the Seven Feet) seam crosses or lies close to the site.

The Coal Authority believe that this seam is likely to have been worked in the area in the early 1800s.

When assessing the risks from shallow mine workings, as a rule of thumb to prevent the future collapse of mine workings migrating to the surface and forming crown holes there should be a 10:1 rock head to void ratio. Based on the above, should workings exist within the seam this criteria is unlikely to be satisfied.

It is therefore recommended that a physical site investigation be performed on site to establish the geological conditions. This should entail the sinking of up to five rotary probholes beneath the footprint of the proposed new house.

Following investigation the requirement for any necessary mine stabilisation can be confirmed. If shallow workings are found to exist and insufficient rockhead cover is confirmed then a probe drilling and grouting exercise will be necessary.

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SECTION 1 Introduction and Proposed Development

Mr and Mrs David Lea are proposing the construction of a single dwelling on land off Six Bells Estate, Heolgerrig.

Barry Tomlinson Architectural Services Limited is the Architect for the project.

Terra Firma (Wales) Limited have been commissioned by Barry Tomlinson Architectural Services Limited, on behalf of Mr and Mrs David Lea to undertake a Mining Risk Assessment Report for the site.

The main objectives of Mining Risk Assessment were to:

- Investigate any historic mining activities that may pose a risk to the proposed development.
- Determine the geological conditions beneath the site.
- Determine if shallow workings are present beneath the site.
- Determine the amount of sound rock head cover above any workings.
- Provide an assessment of the risk from shallow workings beneath the site.

In order to achieve the above objectives, Terra Firma (Wales) Limited carried out an assessment programme including a review of existing data.

1.1 Limitations and Exceptions of Investigation

Barry Tomlinson Architectural Services Limited has requested that a Mining Risk Assessment Report be carried out.

The report has been prepared for the sole internal reliance of Mr and Mrs David Lea and their design and construction team. This report shall not be relied upon or transferred to any other parties without the express written authorisation of Terra Firma (Wales) Limited. If an unauthorised third party comes into possession of this report they rely on it at their peril and the authors owe them no duty of care and skill.

The report represents the findings and opinions of experienced geo-environmental and geo-technical consultants. Terra Firma (Wales) Limited does not provide legal advice and the advice of lawyers may also be required.

SECTION 2 Review of Existing Data

2.1 Physical Setting and Current Site Use

The site situates at the junction of Heol Gerrig and Six Bells Estate, centred on a National Grid Reference of 303530 206250. It occupies an approximate plan area of 0.1 hectares.

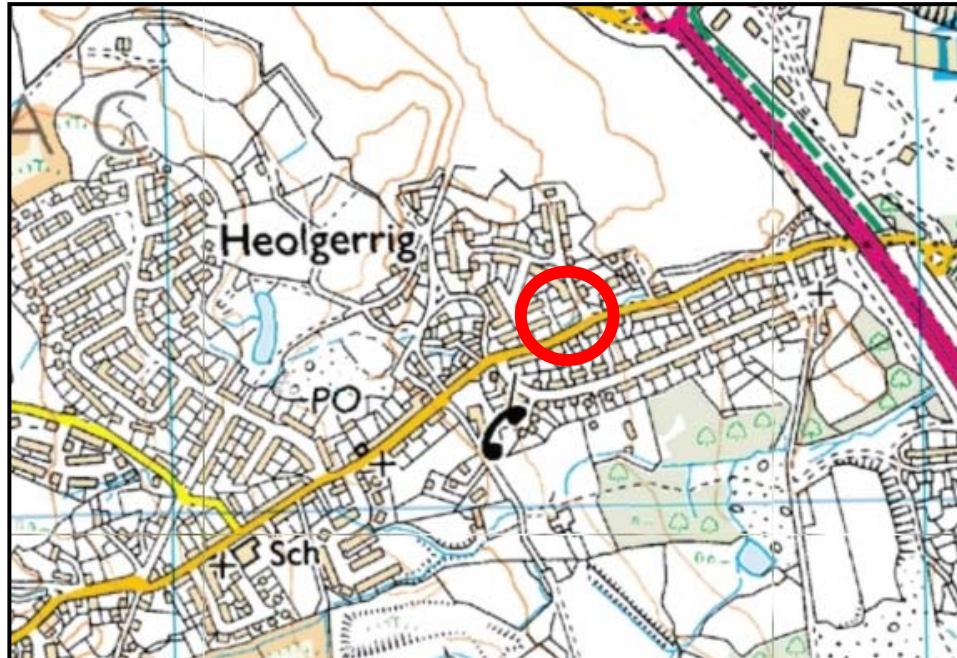


Figure 2.1: Site Location – OS Map OL12 Brecon Beacons (Not to Scale)

The site currently comprises a disused portion of land beneath which a stream is understood to be culverted.

2.2 History

Historical Ordnance Survey maps have been procured from Landmark Information Group. The maps are presented in **Annex A** and a summary of the site history is presented below. All distances are approximate.

1875

The site in 1875 is seen to situate upon field land belonging to Six Bells Farm, which locates 40m to the west. A stream crosses through the site, flowing towards the northeast. An un-named road runs parallel and close to the southern edge of the site from Merthyr Tydfil to the east to Pen-yr-heolgerig to the west. Pen-yr-heol-gerig Quarry is denoted 115m to the northeast and all land immediately north of the farm fields, 150m and beyond the site, is seen to have been subject to extensive mining. Mining activity 200m west of the site is also apparent, where several shafts and levels are shown. Coed Cae Pit (ironstone) situates roughly 400m southeast of the site.

1900

The site remains as farm land and mining in the area has continued with the opening of several new shafts/levels in the mining area to the north. Coedcae Pit, however, has closed.

1919

A number of the former shafts and levels are no longer shown. Terraced housing has been constructed along the southern side of the road both south and southeast of the site.

1938

Residential development to the south and southeast of the site has continued.

1951

All mining activity in the surrounding area appears to have now ceased and all associated tramways dismantled.

1964

The site is undeveloped. However, residential development has extended across the farm fields and is known as Six Bells Farm Estate. A refuse tip is denoted 130m northeast of the site. Pen-yr-heol-gerig Quarry is now shown to be disused.

1975

There have been no notable changes to the site or immediate surrounding area since 1975.

1990

The stream is no longer shown to be present and is therefore assumed to have been culverted.

2015

There have been no notable changes to the site or immediate surrounding area since 1990.

2.3 Geology

The 1:10560 scale Geological Map of the area (Sheet SO 00 NW) records that the site is underlain by rocks of the Lower Coal Measures, which are Carboniferous in age. These rocks generally comprise mudstones with sub-ordinate sandstones, siltstones and coal seams.

An extract from the geology map is presented in **Figure 2.2**.

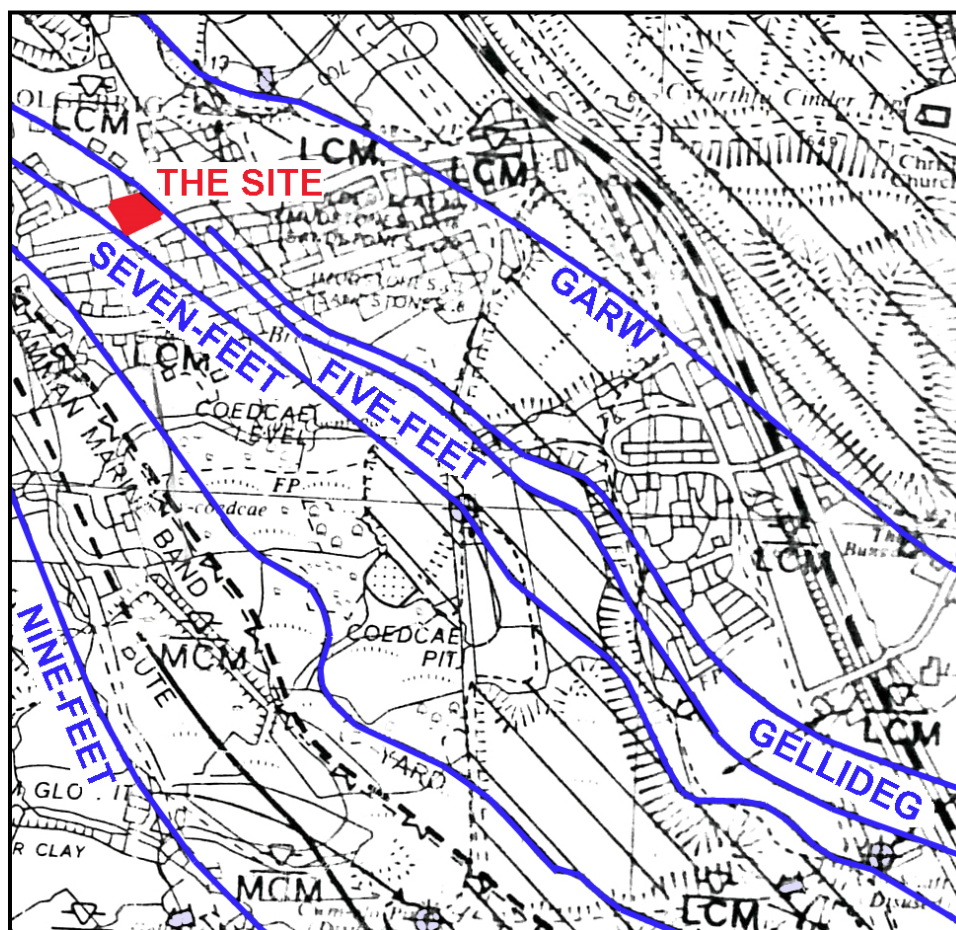


Figure 2.2: Extract From Geological Map

The conjectural outcrops of the Five-Feet, Gellideg are present just northeast of the site. The Five-Feet may outcrop across the far northeast of the site itself. These seams dip towards the southwest and will underlie the site at shallow depth.

The generalised geological section records the Seven Feet coal seam lies 4m above the Five-Feet seam. The Gellideg coal seam positions at 3m below the Five-Feet seam, and the Garw coal seam is 30.5m below the Gellideg seam.

Although not detailed on the geological map the Big Vein ironstone is known to be present above the Garw coal, and the No.1 and No.2 Rosser ironstones lie below the Garw.

Superficial boulder clay deposits are shown to overlie the solid geology.

Given the former use of the site no made ground is expected to be present.

2.4 Mining

A Coal Authority Mining Report was obtained for the site. This is presented in **Annex B**. The Report states that the property is in the likely zone of influence from workings in 1 seam of coal at shallow depth. The coal seam was last worked in 1896. The seam worked was the Five-Feet-Six (lower leaf of the Seven-Feet) coal seam. The Seven-Feet seam in this area is typically found in three leaves.

An abandoned mining plan for the Five-Feet-Six coal seam was obtained from the Coal Authority. A section of this is provided below. Given the poor quality of this plan, features have been clearly marked.

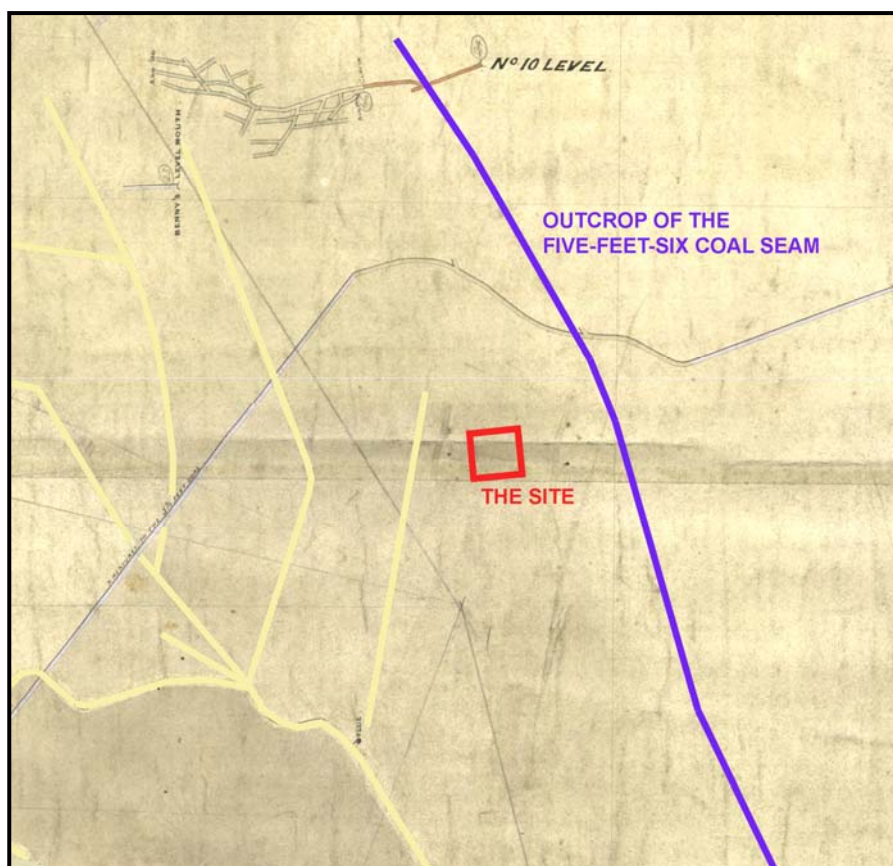


Figure 2.3: Extract From Five-Feet-Six Coal Seam Abandoned Mining Plan

The location of the site shown above is based on overlaying the historical plan with the abandoned mining plan. The Coal Authority place the site to the east of this location, where the coal seam crosses the western half of the site, which would correlate with the geological map, which shows the seam on or very close to the site's western boundary.

Although no specific mine roadways are shown beneath the site (whether it be where shown above or around the Five-Feet-Six seam), the map does state for this area 'Working in this part about the year 1827'.

There are no mine entries recorded upon or within 20m of the site. However the Coal Authority note that records may be incomplete, and that there may exist mine entries of which it has no knowledge.

SECTION 3 Assessment of the Risk from Past Shallow Coal Mining

Based upon the geological and desk study information the stratigraphical sequence beneath the site and within 30 to 40m of the ground surface is taken to be:

- Superficial Deposits
- Completely weathered Measures
- **Five-Foot-Six (Lower Leaf of Seven Feet) Coal Seam**
- Measures
- **Five-Feet Coal Seam (1.2-1.5m)**
- Measures with thin coals
- **Gellideg Coal Seam (0.61-0.91m)**
- Measures
- **Big Vein Ironstone**
- Measures
- **Garw Coal Seam (0.48m)**
- Measures

There is a likelihood of the Five-Foot-Six coal seam having been worked beneath part or all of the site at shallow depth.

When assessing the risks from shallow mine workings, as a rule of thumb to prevent the future collapse of mine workings migrating to the surface and forming crown holes there should be a 10:1 rock head to void ratio. Based on the above, should workings exist within the seam this criteria is unlikely to be satisfied.

It is therefore recommended that a physical site investigation be performed on site to establish the geological conditions and presence and thickness of any coal seams or coal workings. This should entail the sinking of up to five rotary probeholes beneath the footprint of the proposed new house.

Some or all of the probeholes should be taken to a depth of 30m into bedrock. Any workings with $\geq 30\text{m}$ rockhead cover are not deemed to present a significant risk from collapse at the surface.

Appropriate permission should be sought from the Coal Authority prior to any site investigation works.

Following investigation the requirement for any necessary mine stabilisation can be confirmed. If shallow workings are found to exist and insufficient rockhead cover is confirmed then a probe drilling and grouting exercise will be necessary.

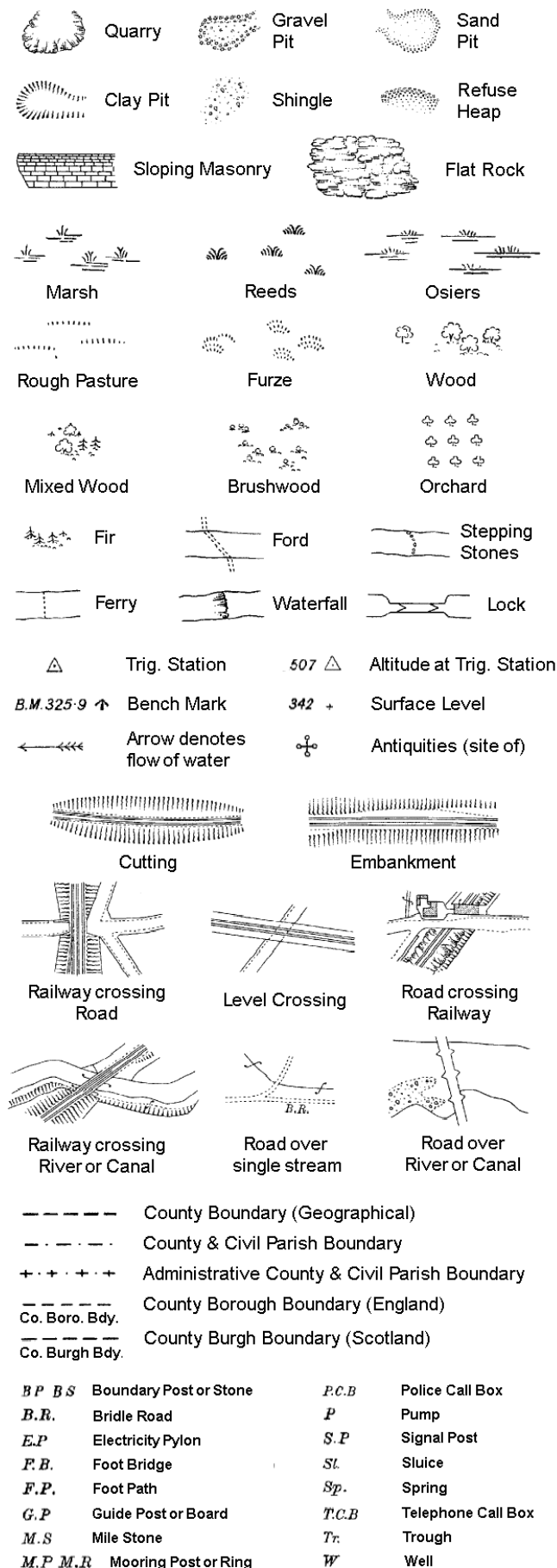
Once all investigatory works have been undertaken then the most suitable foundation solution may be recommended, although please note that to make these recommendations investigation of the shallow ground conditions would also need to be undertaken.

For treated mine workings, the use of a reinforced concrete raft type foundation/floor slab foundation are likely to be suitable. Where there is determined to be a low level risk from shallow mining negating the necessity of grout treatment a reinforced concrete raft type foundation/floor slab foundation capable of spanning a crown hole of 3m with a cantilever effect on corners of 1.5m may be used.

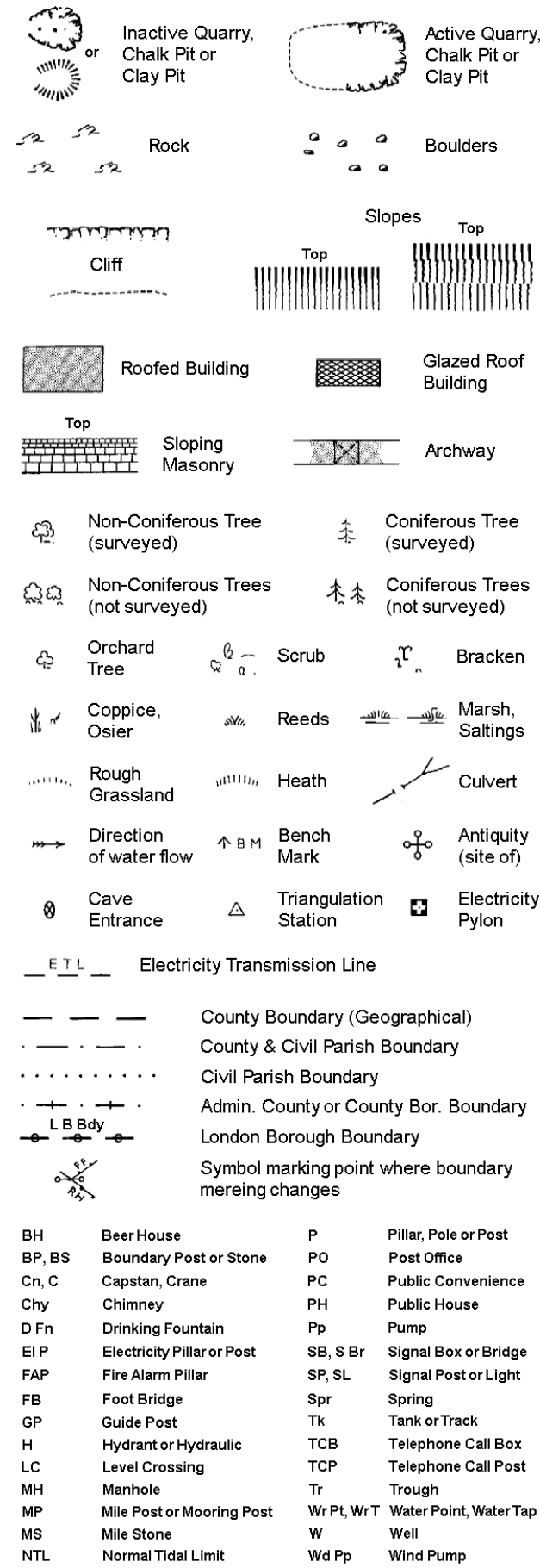
Annex A
Landmark Historical Maps

Historical Mapping Legends

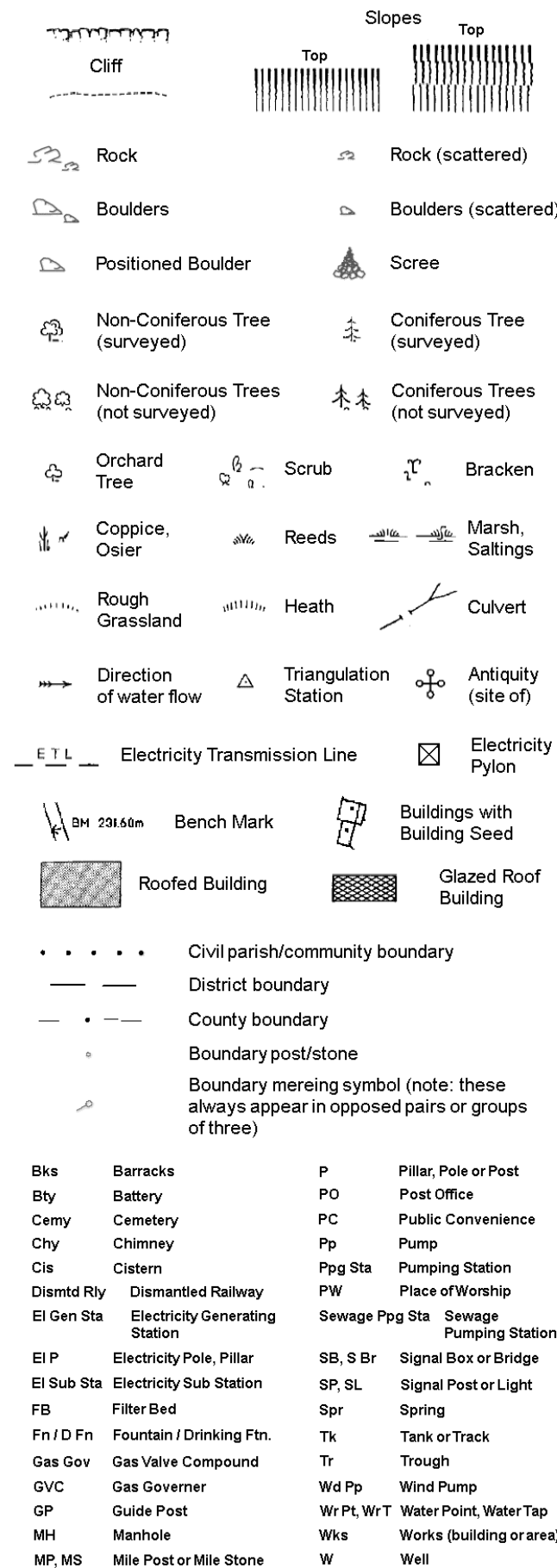
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



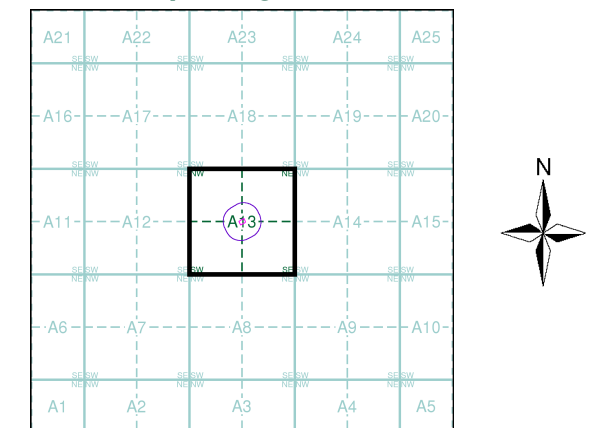
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1875 - 1881	2
Glamorganshire	1:2,500	1900 - 1904	3
Brecknockshire	1:2,500	1904	4
Glamorganshire	1:2,500	1919	5
Brecknockshire	1:2,500	1919	6
Ordnance Survey Plan	1:1,250	1956 - 1975	7
Ordnance Survey Plan	1:2,500	1958 - 1964	8
Ordnance Survey Plan	1:1,250	1975	9
Ordnance Survey Plan	1:2,500	1975	10
Additional SIMs	1:1,250	1984 - 1990	11
Additional SIMs	1:2,500	1990	12
Large-Scale National Grid Data	1:1,250	1993	13
Large-Scale National Grid Data	1:2,500	1993	14
Large-Scale National Grid Data	1:1,250	1995	15

Historical Map - Segment A13



Order Details

Order Number: 68515392_1_1
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National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

Six Bells Estate, Heolgerrig, MERTHYR TYDFIL, Mid Glamorgan, CF48 1TU



Tel: 0844 844 9952
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Glamorganshire

Published 1875 - 1881

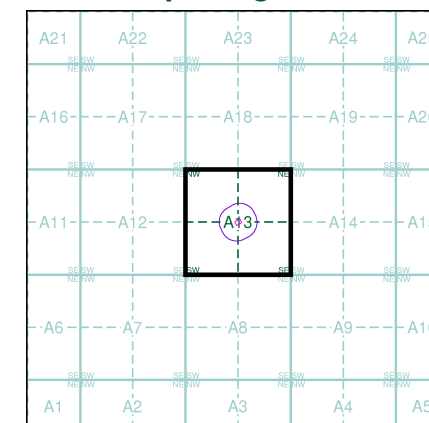
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

011_04 1875 1:2,500	012_01 1875 1:2,500
011_08 1881 1:2,500	012_05 1876 1:2,500

Historical Map - Segment A13



Order Details

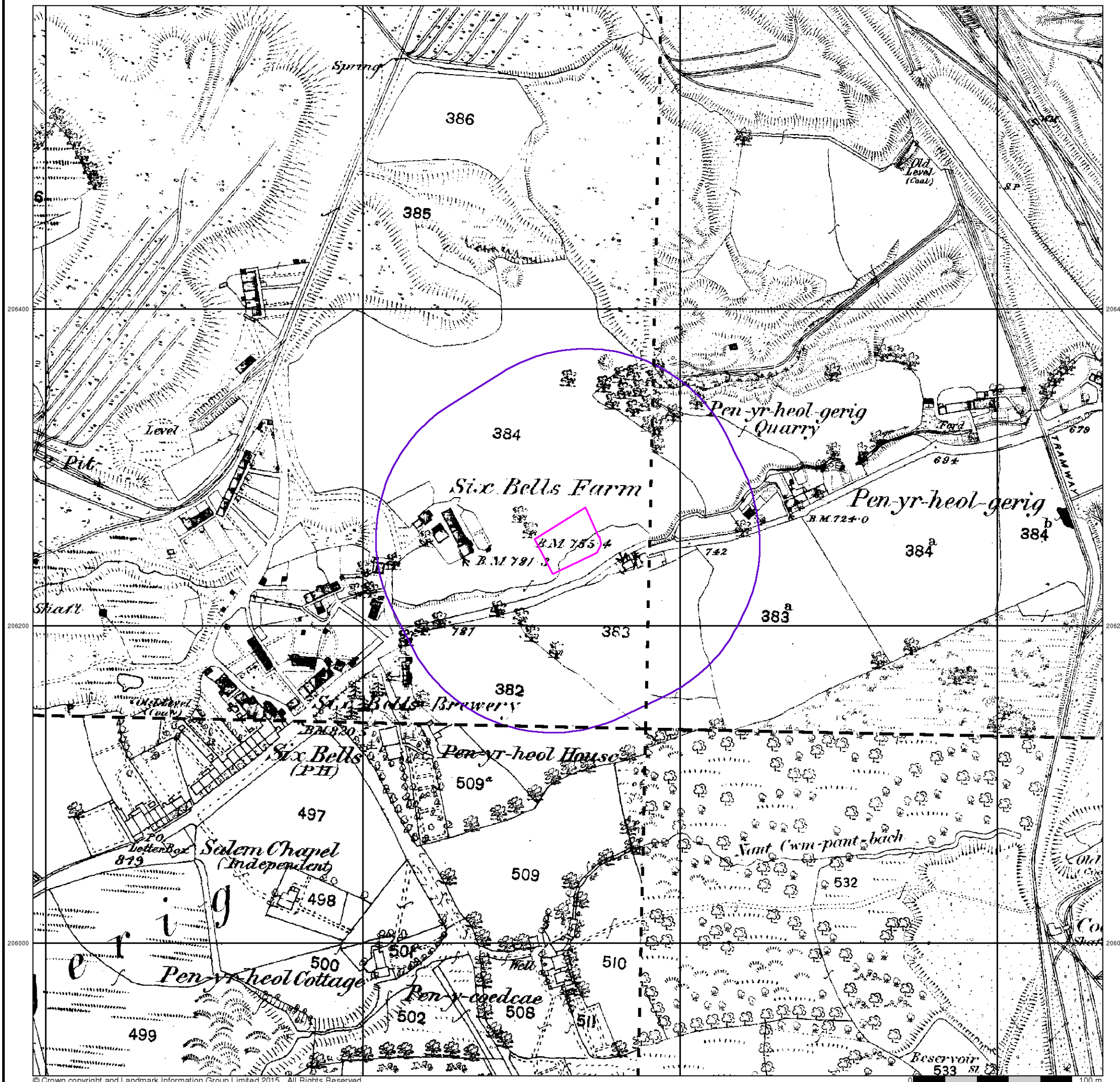
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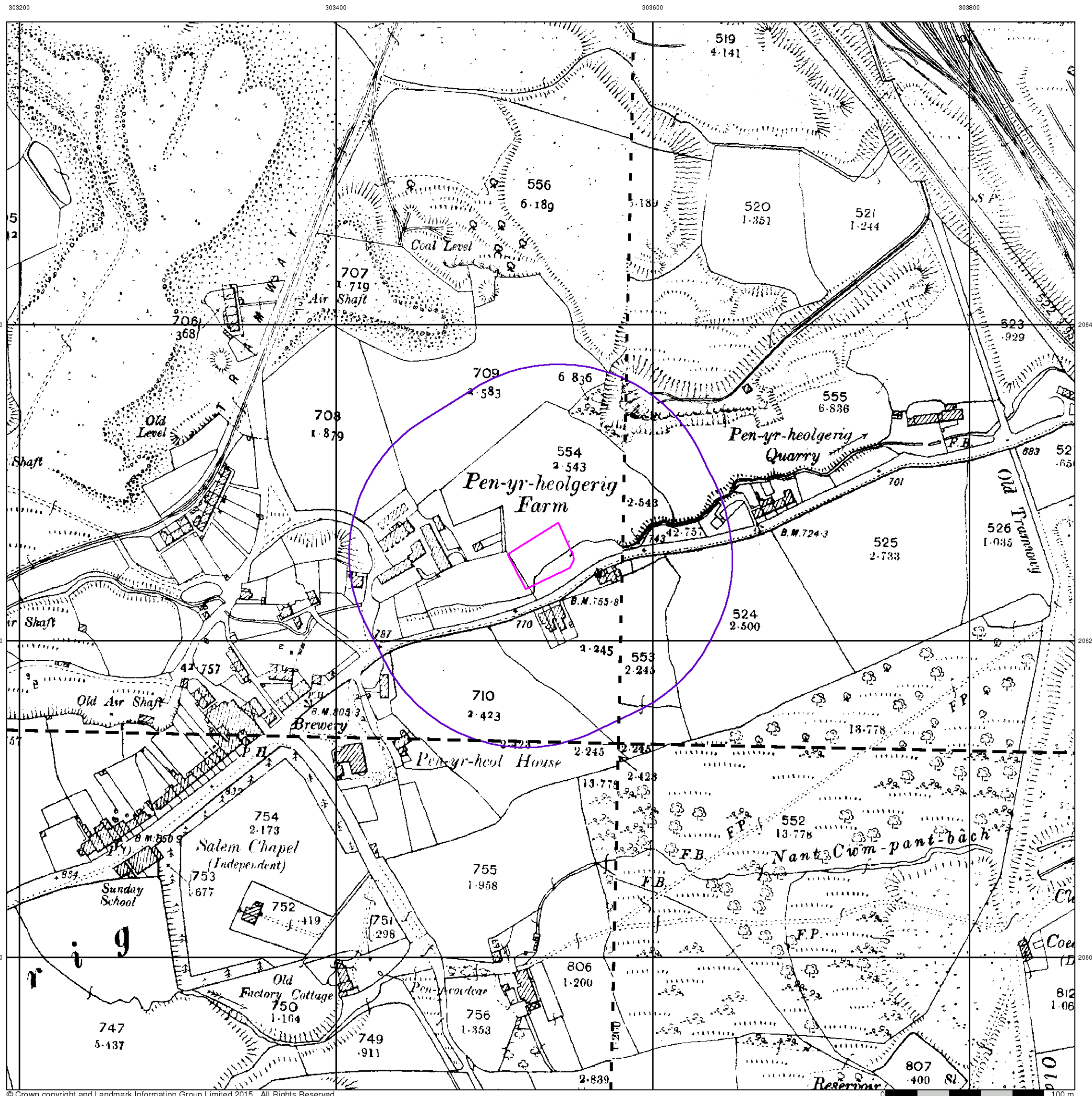
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Glamorganshire

Published 1900 - 1904

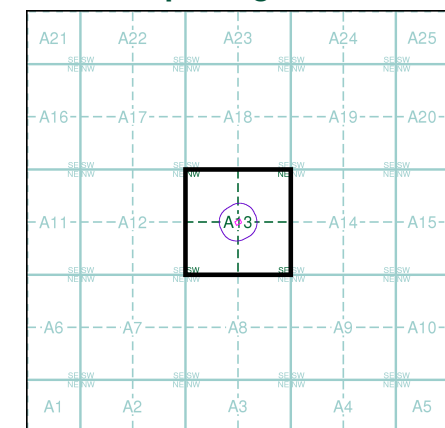
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Map Name(s) and Date(s)

011_04 1904 1:2,500	012_01 1900 1:2,500
011_08 1900 1:2,500	012_05 1900 1:2,500

Historical Map - Segment A13



Order Details

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Site Area (Ha): 0.1
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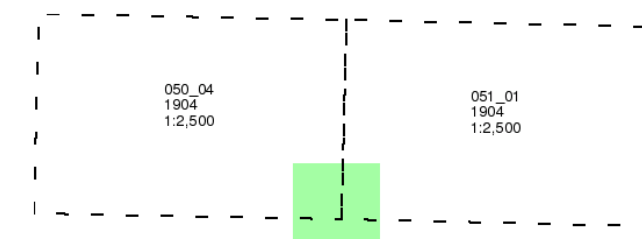
Brecknockshire

Published 1904

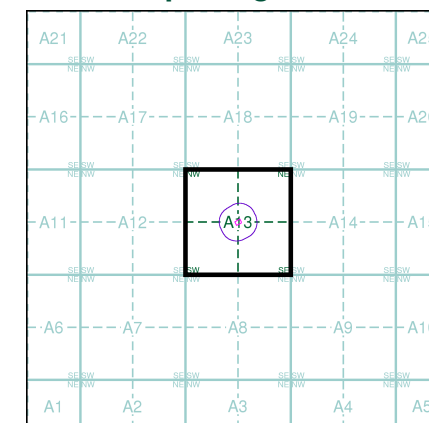
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Map Name(s) and Date(s)



Historical Map - Segment A13



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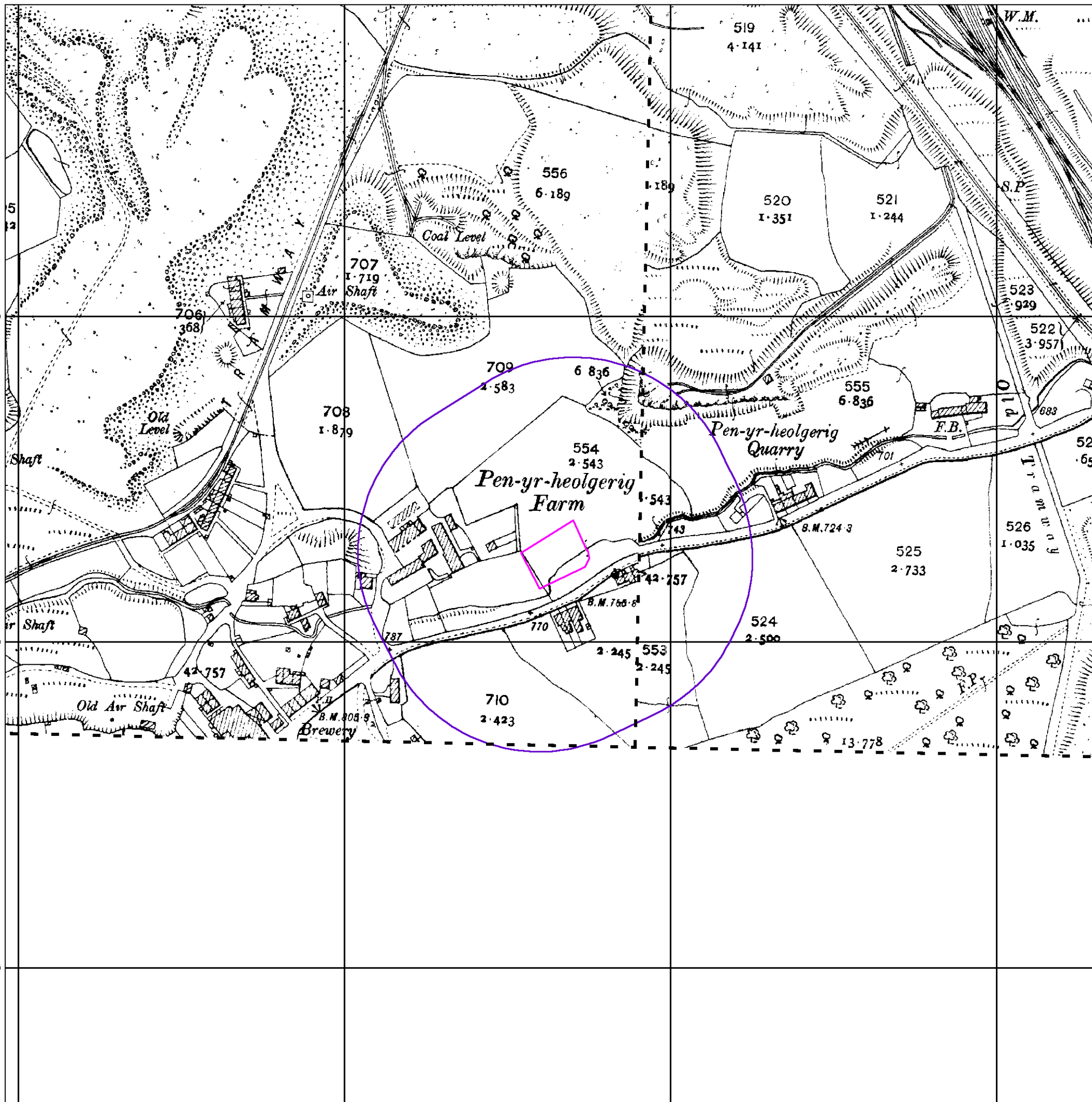
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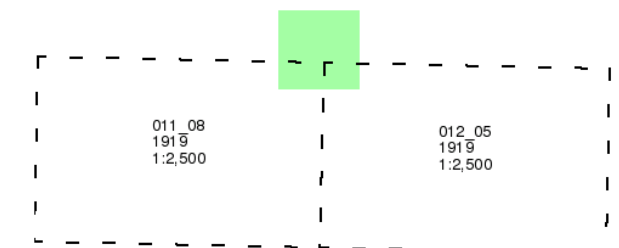
Glamorganshire

Published 1919

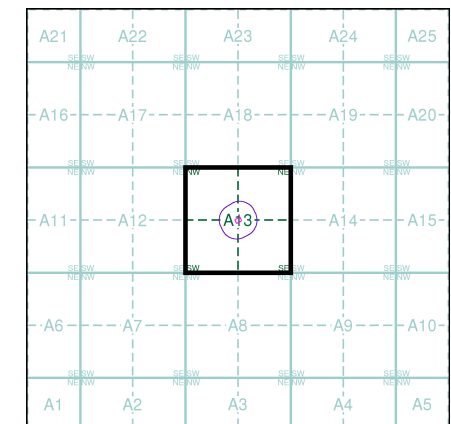
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Map Name(s) and Date(s)



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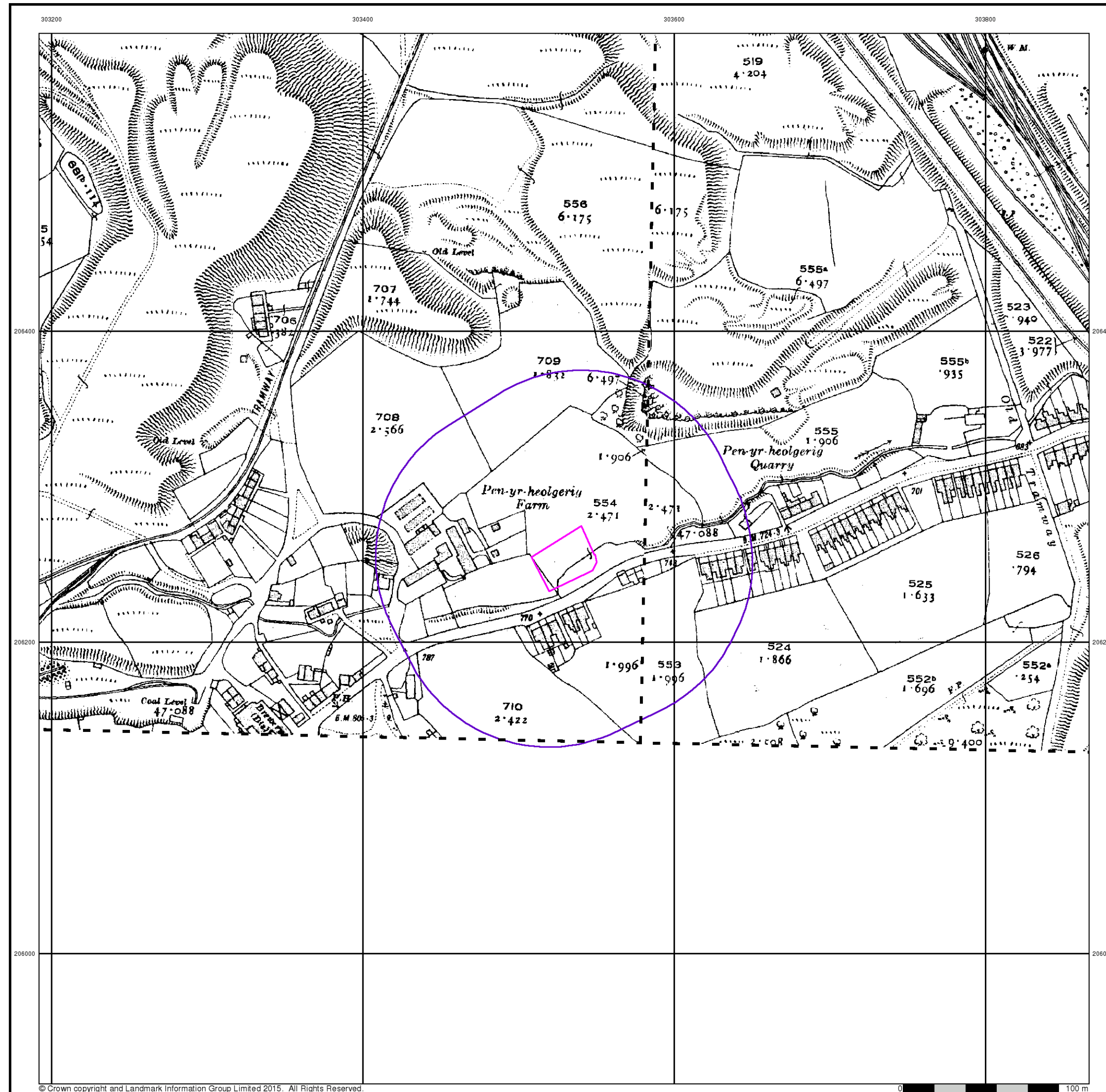
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Six Bells Estate, Heolgerrig, MERTHYR TYDFIL, Mid Glamorgan, CF48 1TU



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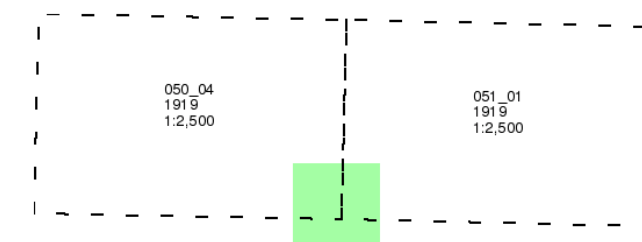
Brecknockshire

Published 1919

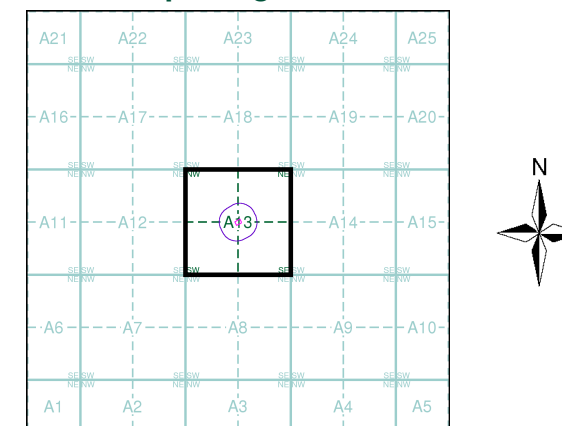
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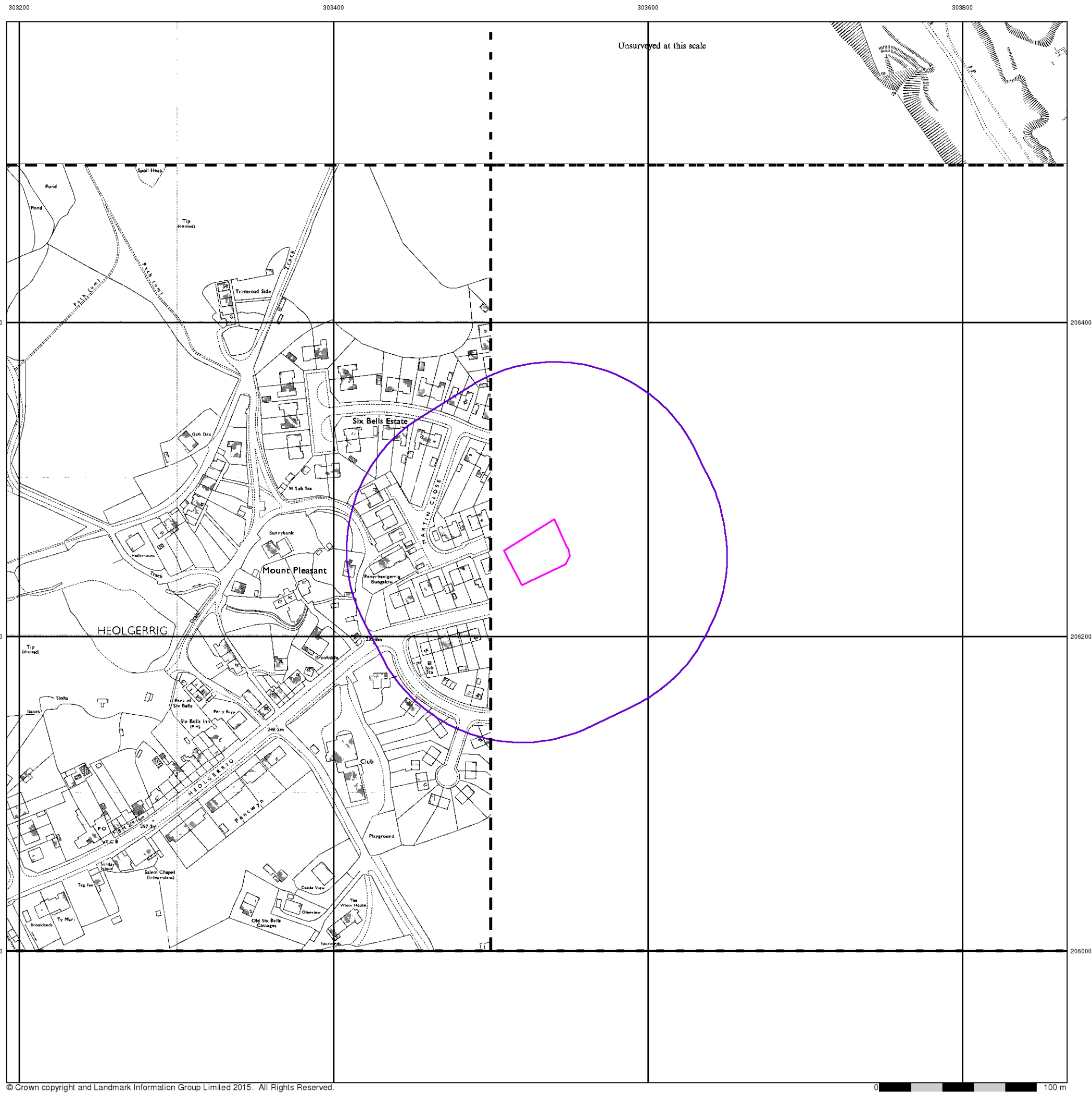
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Ordnance Survey Plan

Published 1956 - 1975

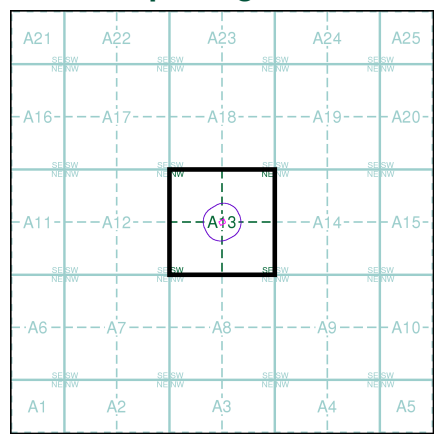
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Map Name(s) and Date(s)

SO0306NW	SO0306NE
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1:1,250	1:1,250
SO0306SW	SO0306SE
1975	1958
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

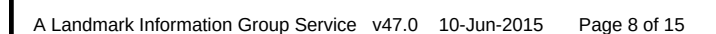
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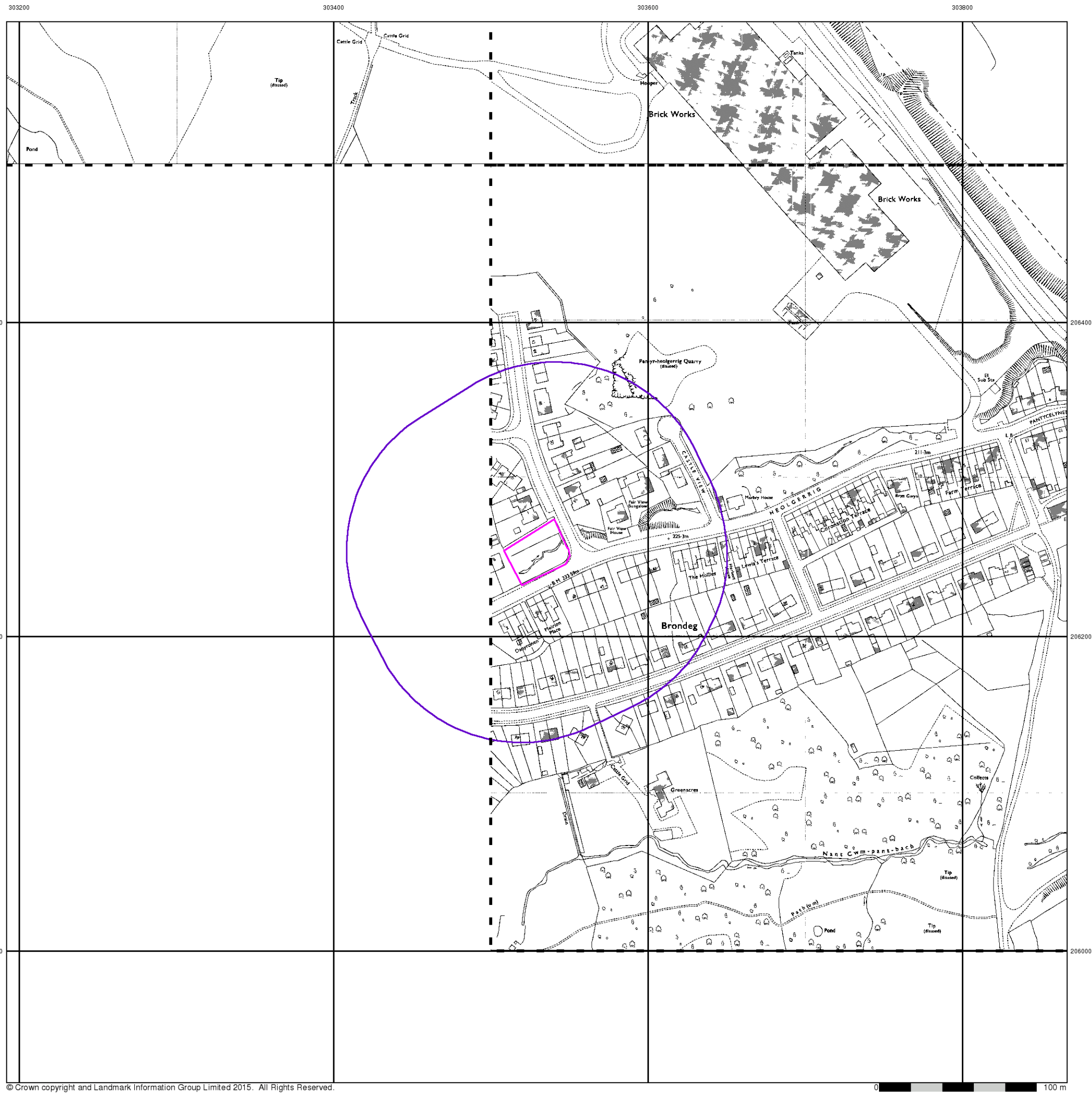
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Ordnance Survey Plan

Published 1975

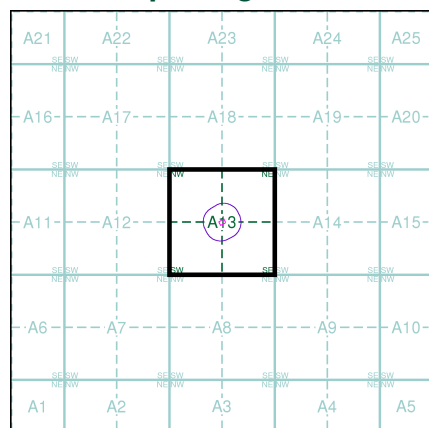
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Map Name(s) and Date(s)

SO0306NW 1975 1:1,250	SO0306NE 1975 1:1,250
SO0306SE 1975 1:1,250	

Historical Map - Segment A13



Order Details

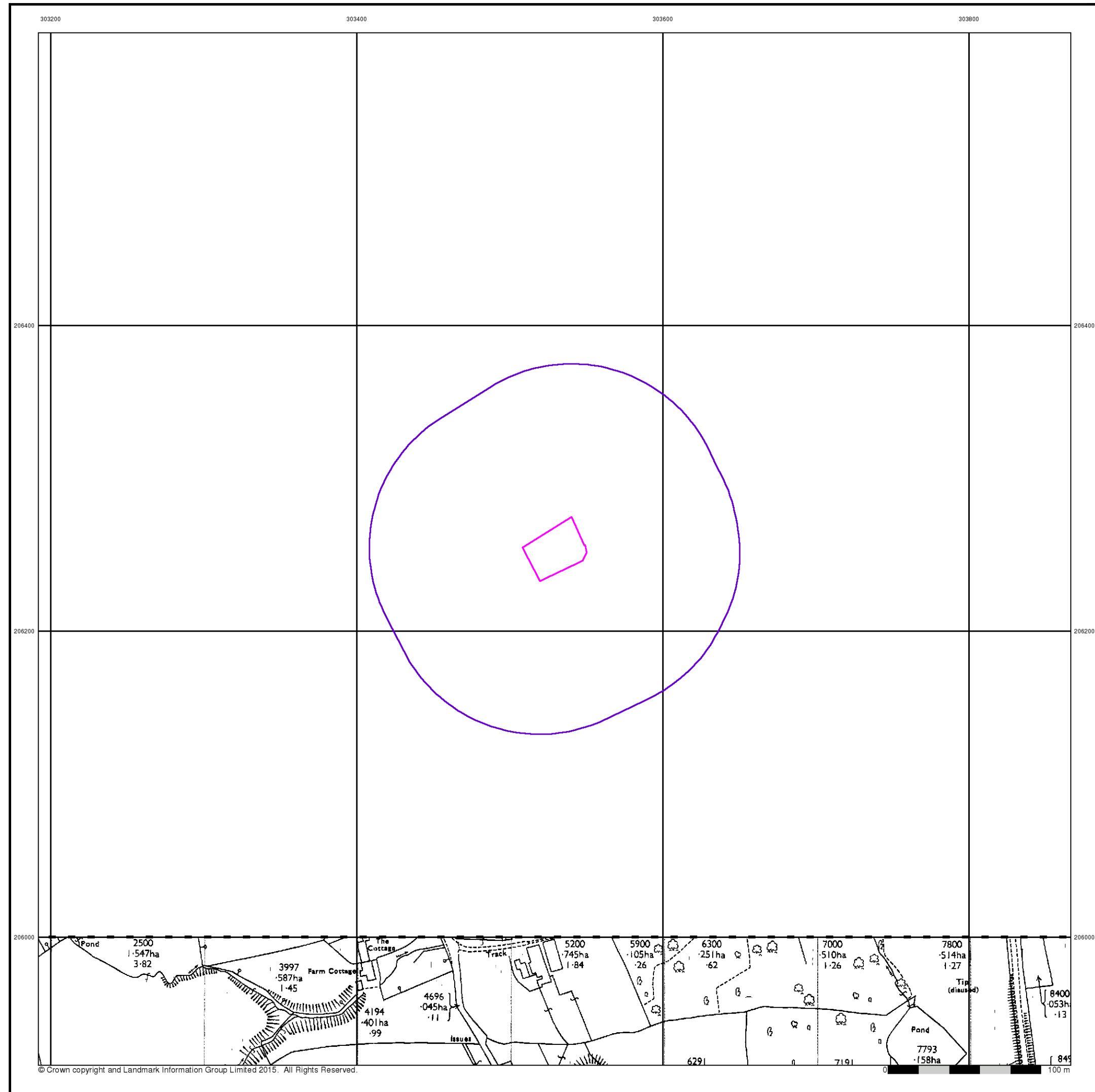
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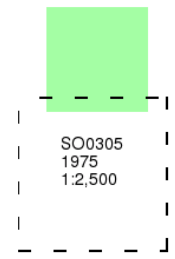
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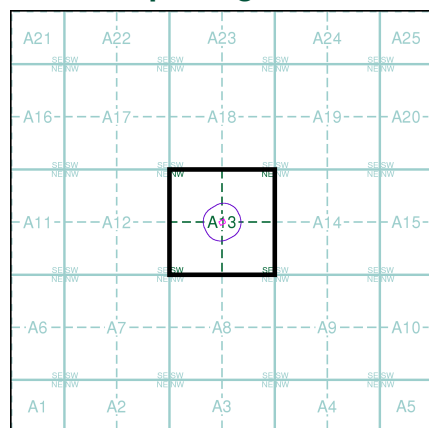
Ordnance Survey Plan
Published 1975
Source map scale - 1:2,500

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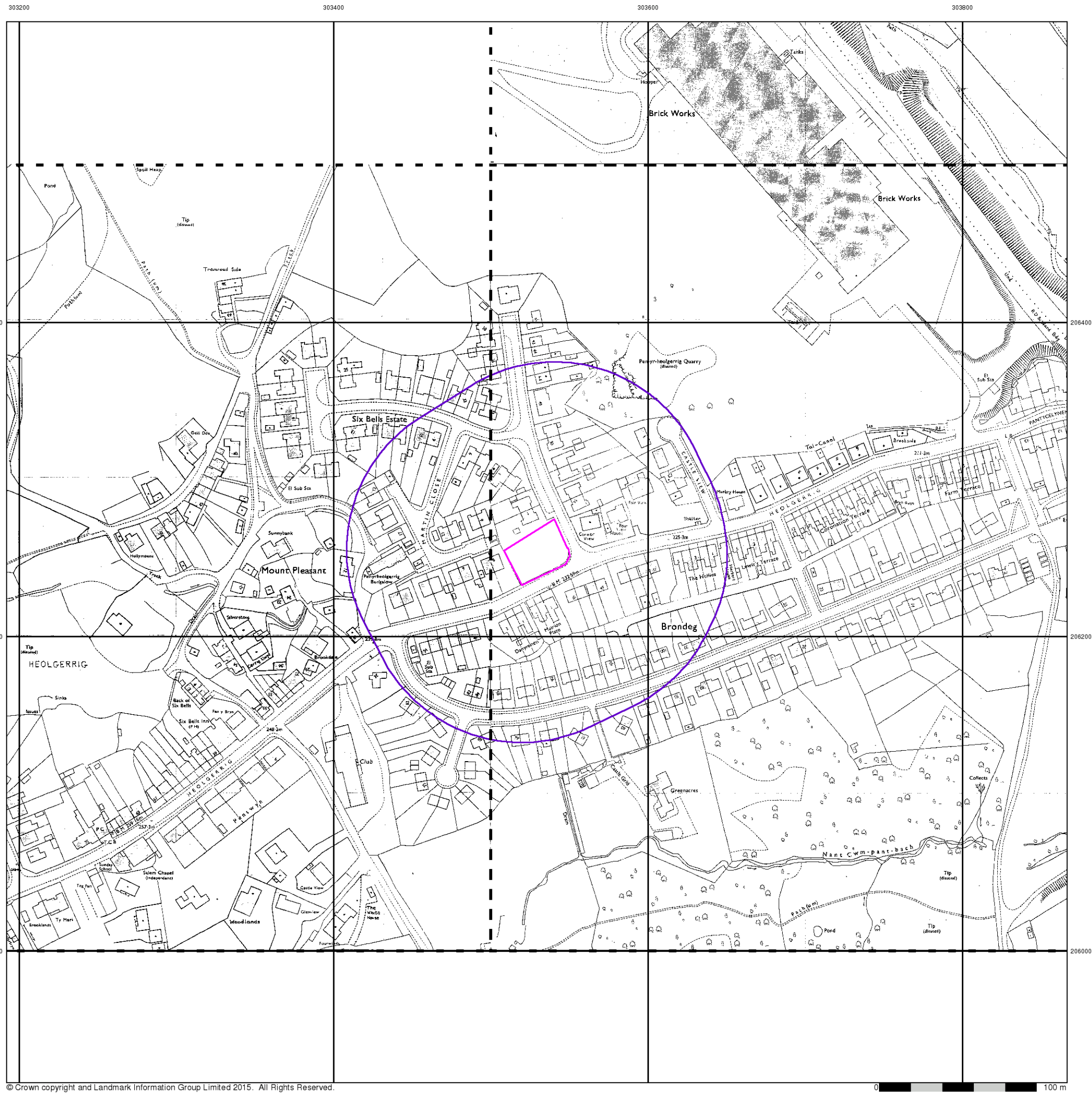


Historical Map - Segment A13



Order Details
Order Number: 68515392_1_1
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Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

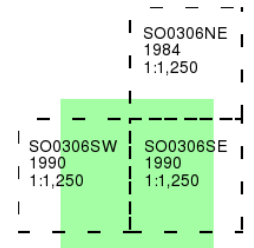
Site Details
Six Bells Estate, Heolgerrig, MERTHYR TYDFIL, Mid Glamorgan, CF48 1TU



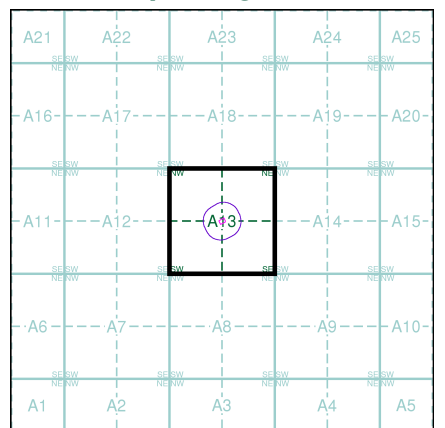
Additional SIMs
Published 1984 - 1990
Source map scale - 1:1,250

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details
Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details
Six Bells Estate, Heolgerrig, MERTHYR TYDFIL, Mid Glamorgan, CF48 1TU



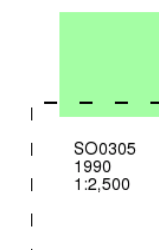
Additional SIMs

Published 1990

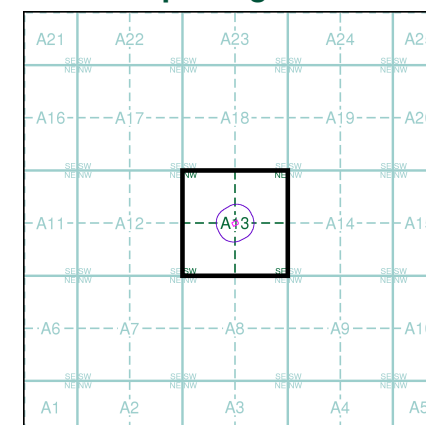
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

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303200

303400

303600

303800



Large-Scale National Grid Data

Published 1993

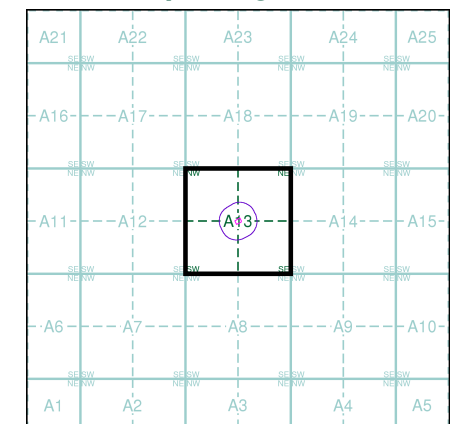
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SO0306NW 1993 1:1,250	SO0306NE 1993 1:1,250
SO0306SW 1993 1:1,250	SO0306SE 1993 1:1,250

Historical Map - Segment A13



Order Details

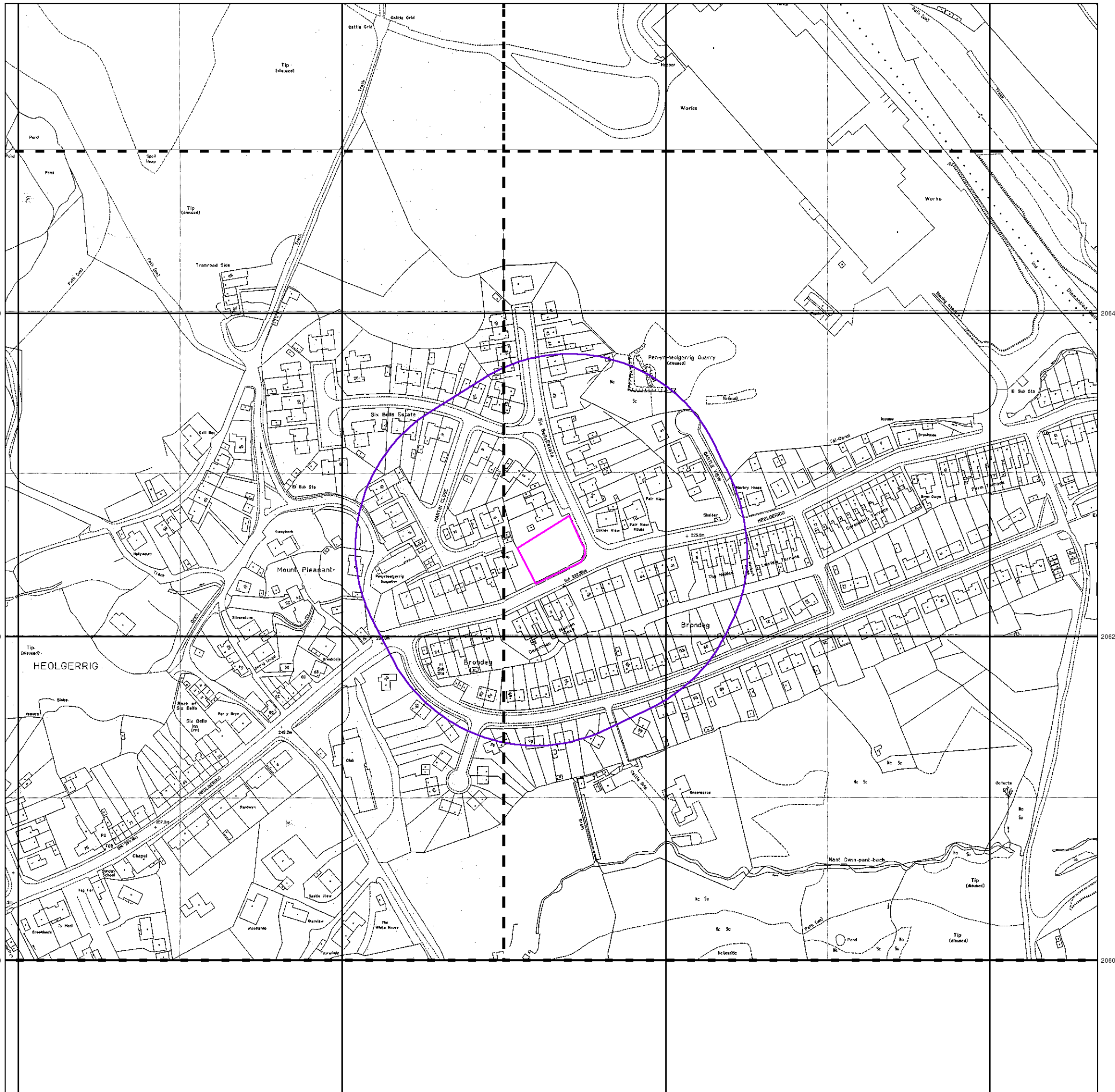
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 Slice: A
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 Search Buffer (m): 100

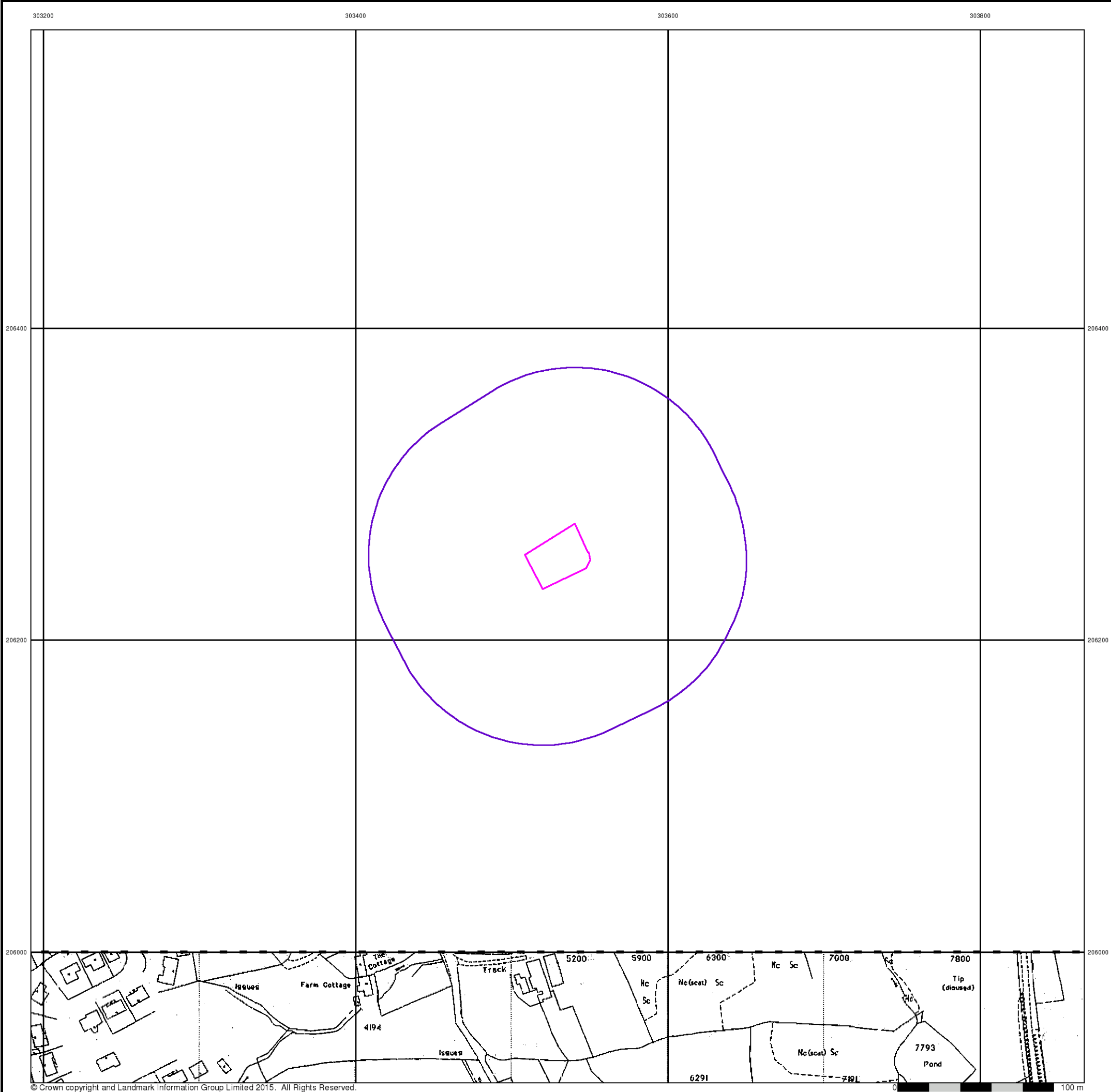
Site Details

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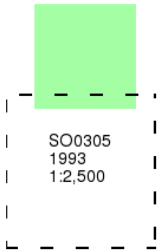




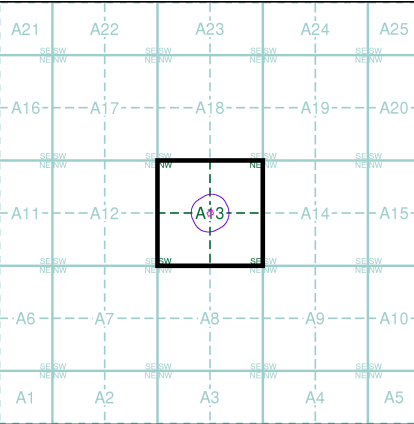
Large-Scale National Grid Data
Published 1993
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

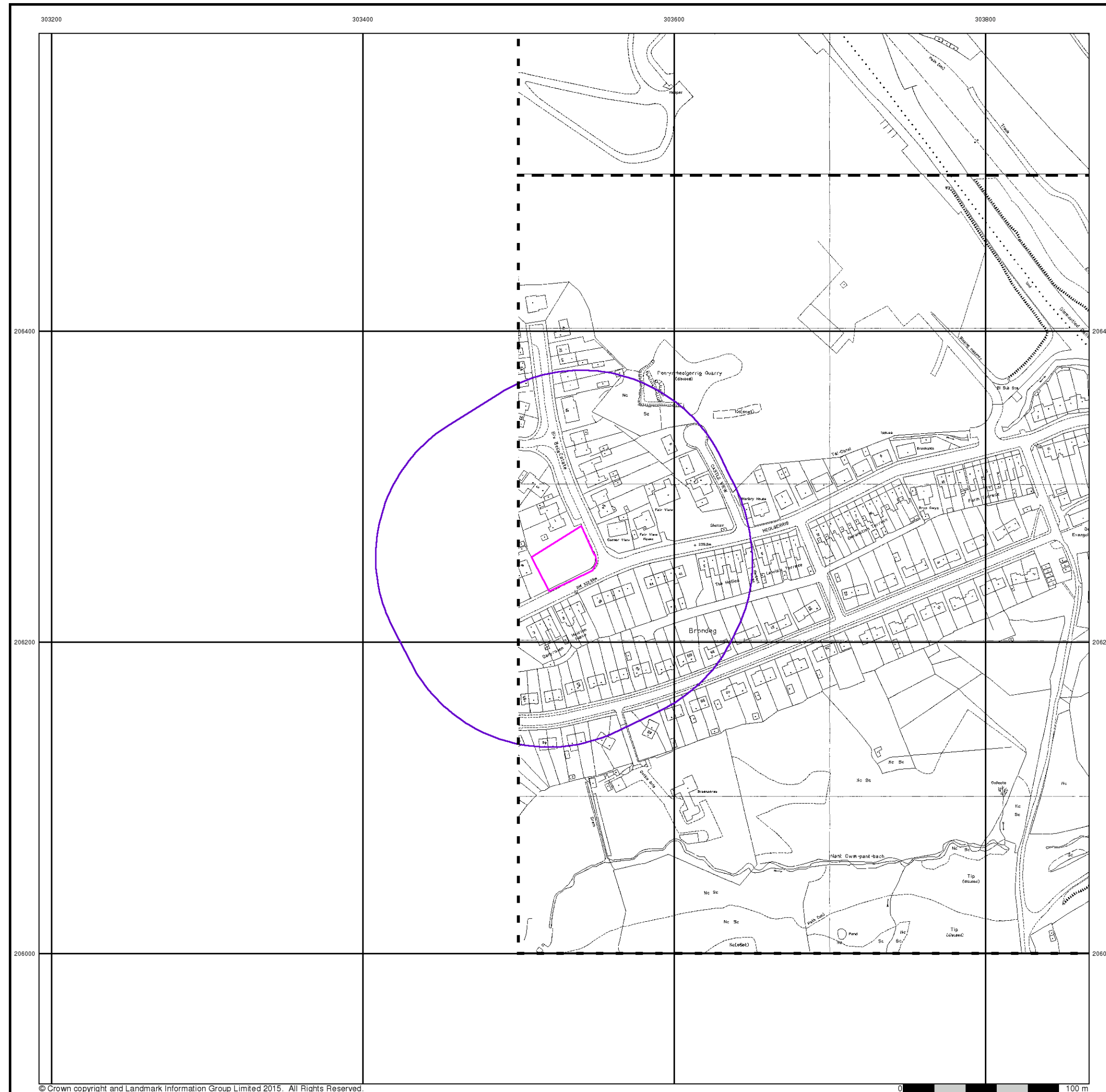
Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1995

Source map scale - 1:1,250

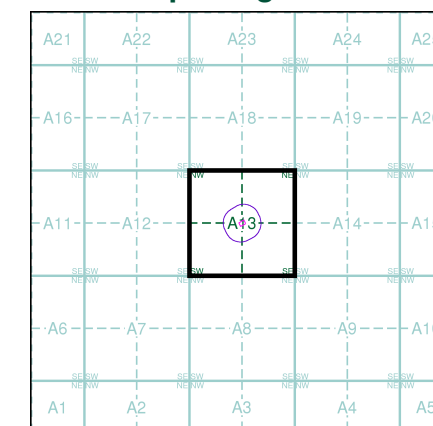
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SO0306NE
1995
1:1,250

SO0306SE
1995
1:1,250

Historical Map - Segment A13



Order Details

Order Number:	68515392_1_1
Customer Ref:	13257
National Grid Reference:	303530, 206250
Slice:	A
Site Area (Ha):	0.1
Search Buffer (m):	100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS		Ch
	CH		F E Sta
	FB		Fn
	GP		MP
	MS		Pol Sta
	PO		PC
	PH		SB
	Spr		TCB
	TCP		W

1:10,000 Raster Mapping

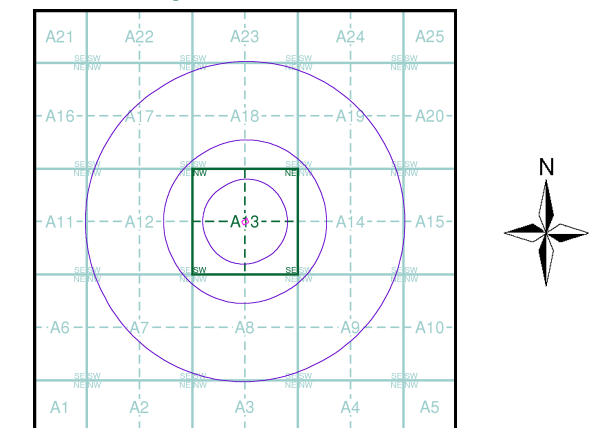
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	Mean high water (springs)		Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Brecknockshire	1:10,560	1884	2
Glamorganshire	1:10,560	1885	3
Glamorganshire	1:10,560	1901	4
Brecknockshire	1:10,560	1905	5
Brecknockshire	1:10,560	1921 - 1922	6
Brecknockshire	1:10,560	1938 - 1951	7
Historical Aerial Photography	1:10,560	1945	8
Brecknockshire	1:10,560	1951	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1969	11
Ordnance Survey Plan	1:10,000	1979	12
Ordnance Survey Plan	1:10,000	1982	13
Ordnance Survey Plan	1:10,000	1990 - 1992	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2015	16

Historical Map - Slice A



Order Details

Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Six Bells Estate, Heolgerrig, MERTHYR TYDFIL, Mid Glamorgan, CF48 1TU



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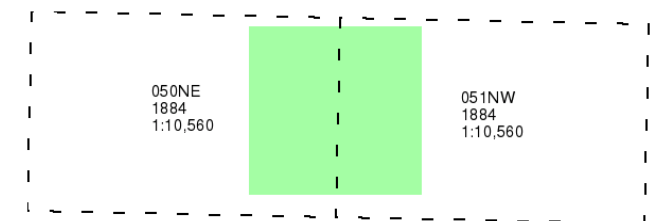
Brecknockshire

Published 1884

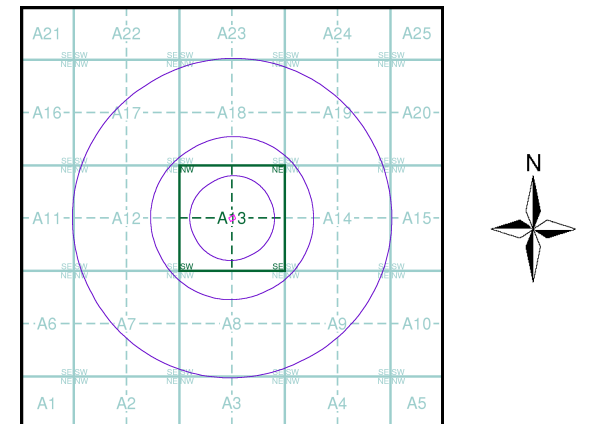
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

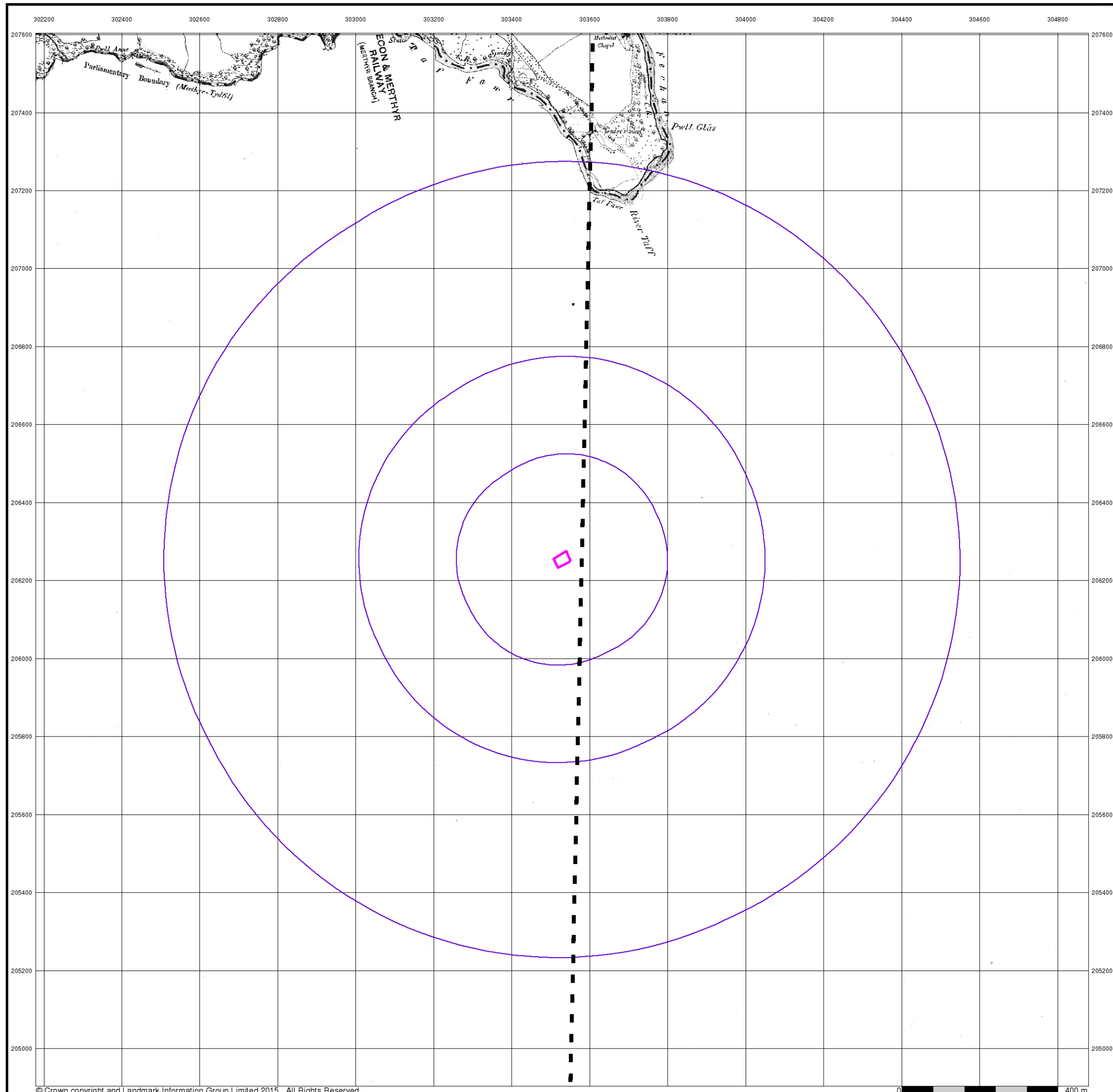
Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
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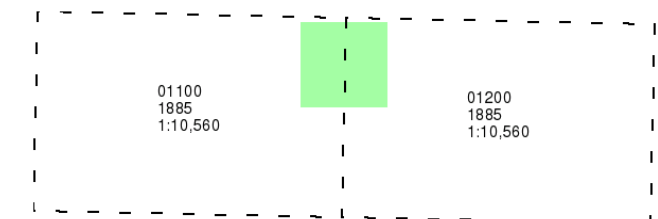
Glamorganshire

Published 1885

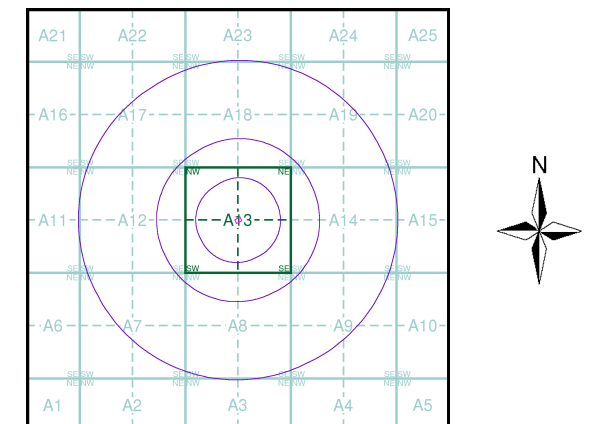
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



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Order Number: 68515392_1_1
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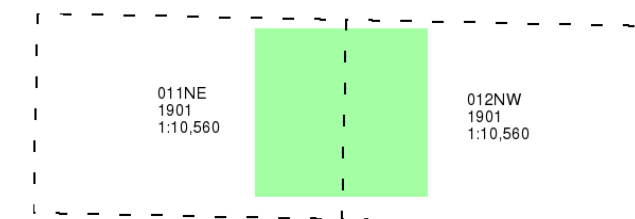
Glamorganshire

Published 1901

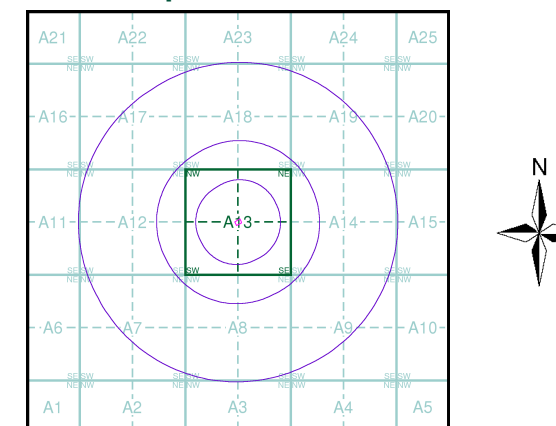
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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Historical Map - Slice A



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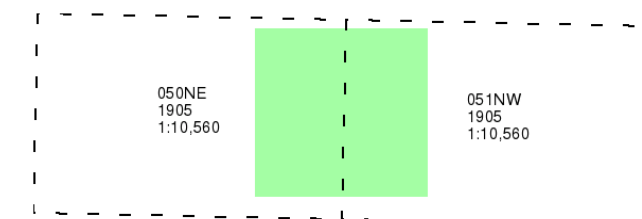
Brecknockshire

Published 1905

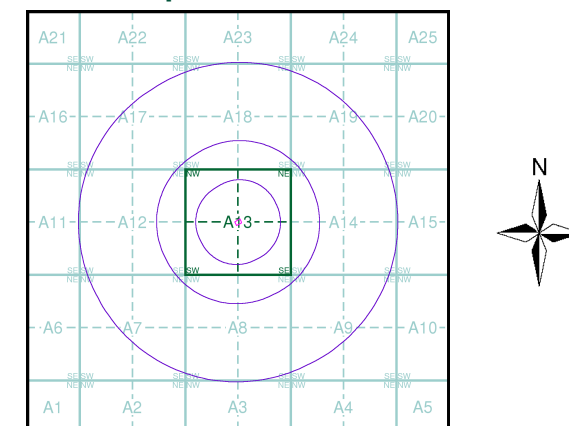
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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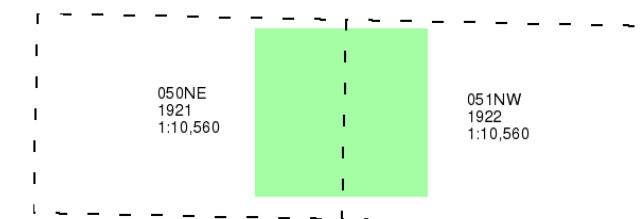
Brecknockshire

Published 1921 - 1922

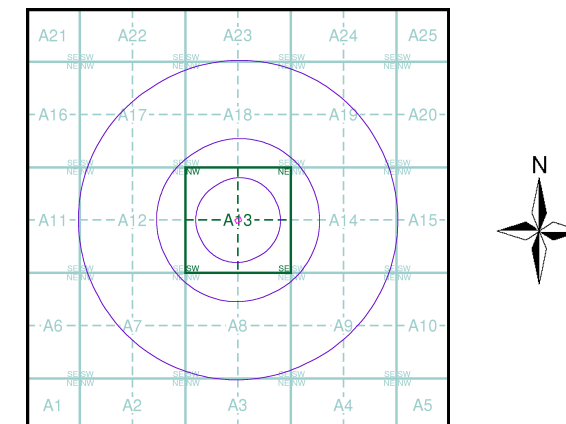
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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National Grid Reference: 303530, 206250
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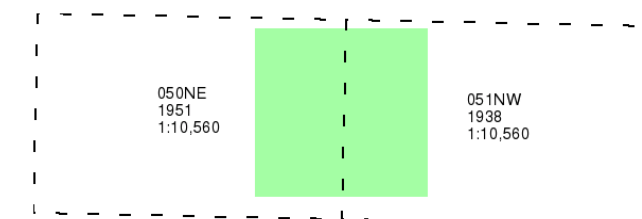
Brecknockshire

Published 1938 - 1951

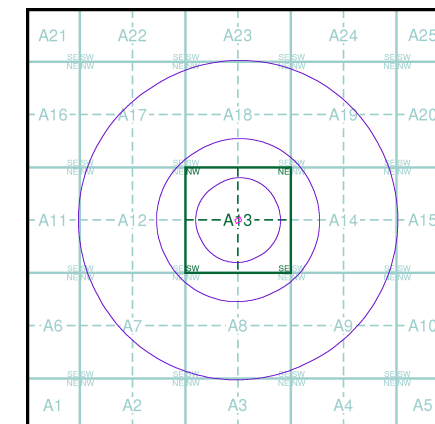
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Historical Aerial Photography

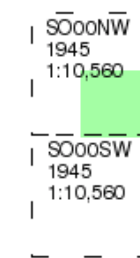
Published 1945

Source map scale - 1:10,560

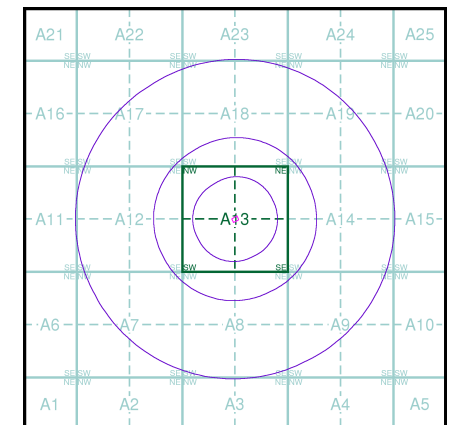
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

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Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 68515392_1_1
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Slice: A
Site Area (Ha): 0.1
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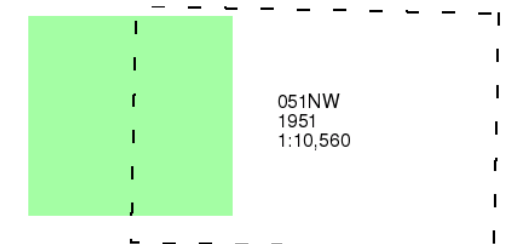
Brecknockshire

Published 1951

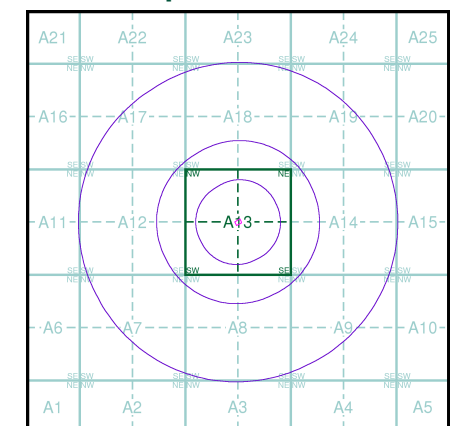
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

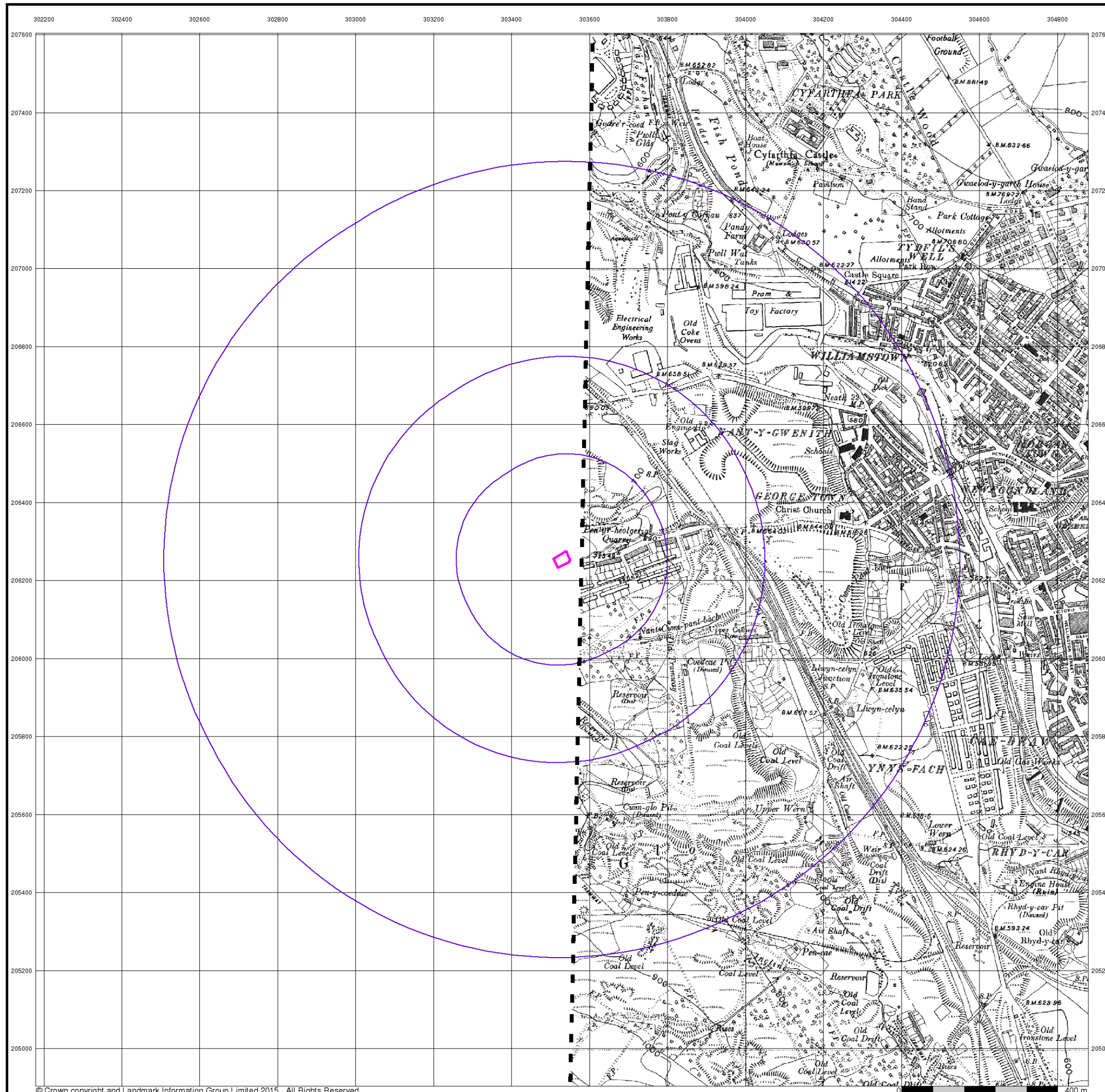
Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

Six Bells Estate, Heolgerrig, MERTHYR TYDFIL, Mid Glamorgan, CF48 1TU



Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk





Ordnance Survey Plan

Published 1964 - 1965

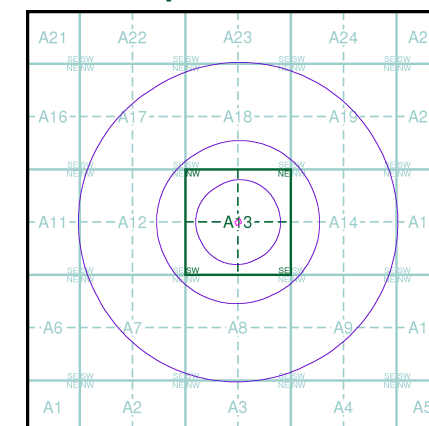
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SO00NW	1965
1:10,560	
SO00SW	1964
1:10,560	

Historical Map - Slice A



Order Details

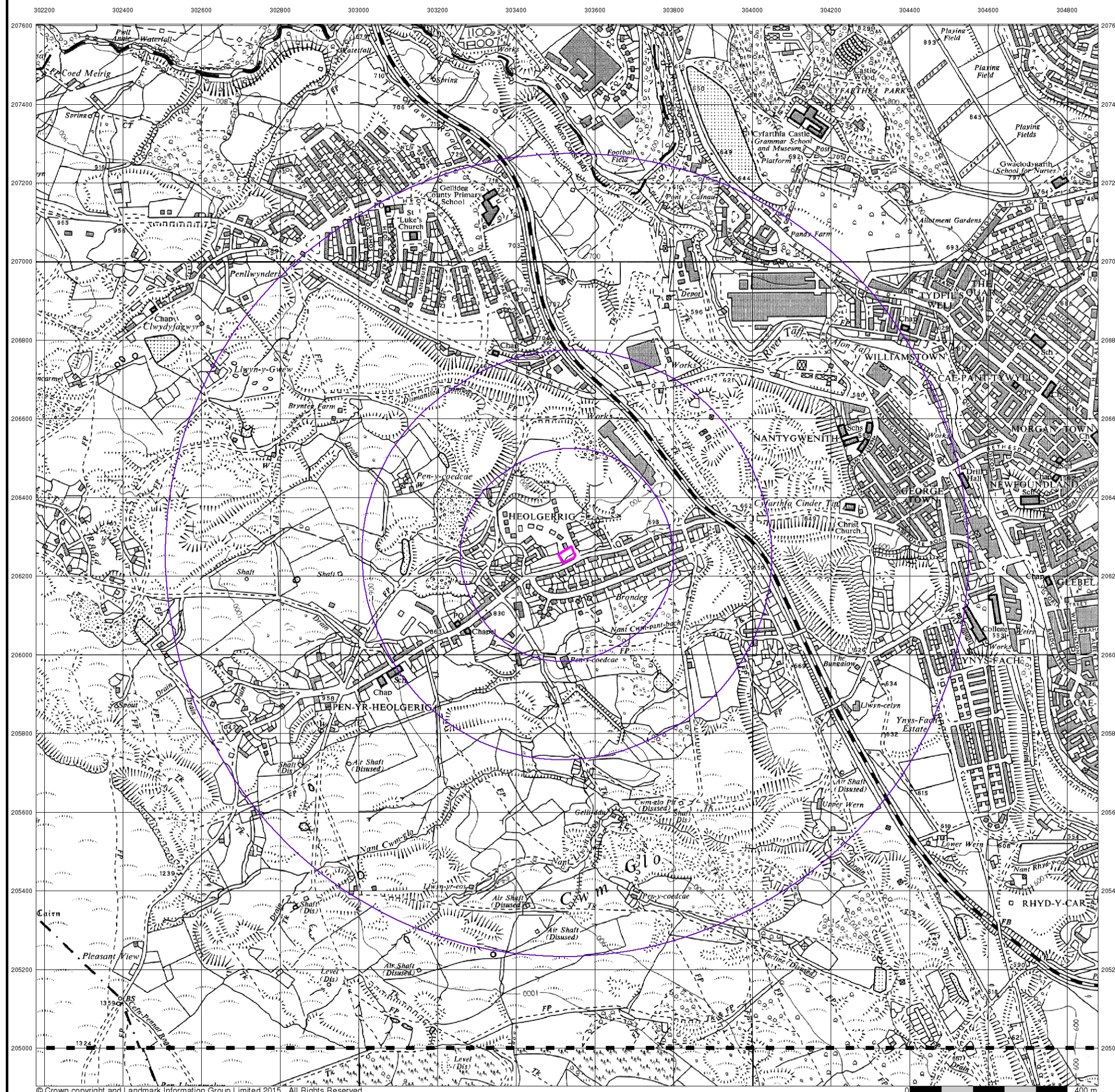
Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
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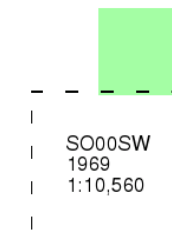
Ordnance Survey Plan

Published 1969

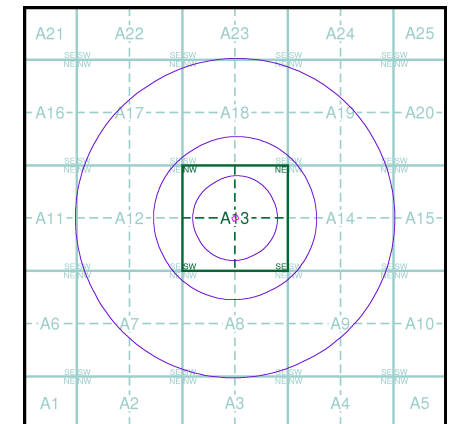
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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National Grid Reference: 303530, 206250
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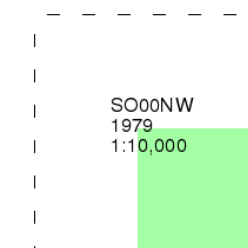
Ordnance Survey Plan

Published 1979

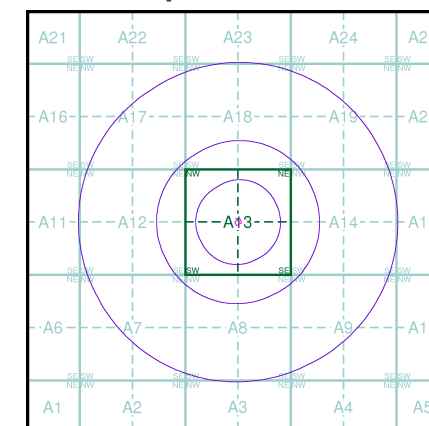
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
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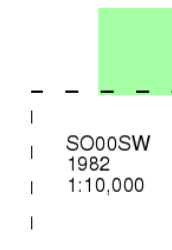
Ordnance Survey Plan

Published 1982

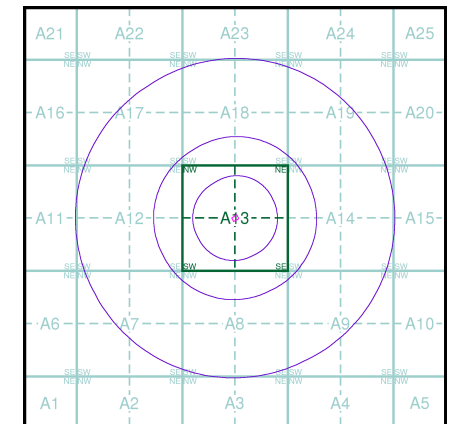
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 68515392_1_1
Customer Ref: 13257
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Slice: A
Site Area (Ha): 0.1
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Ordnance Survey Plan

Published 1990 - 1992

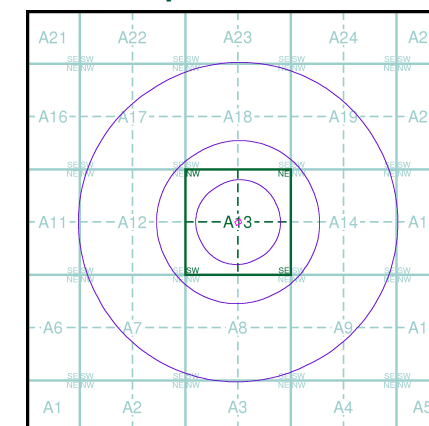
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SO00NW	1992
1:10,000	
SO00SW	1990
1:10,000	

Historical Map - Slice A



Order Details

Order Number: 68515392_1_1
Customer Ref: 13257
National Grid Reference: 303530, 206250
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2006

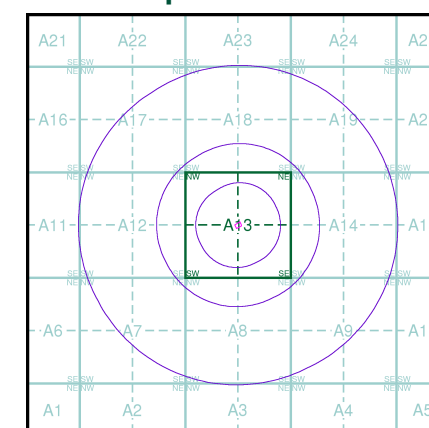
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SO00NW |
2006
1:10,000
SO00SW |
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number: 68515392_1_1
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National Grid Reference: 303530, 206250
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Site Area (Ha): 0.1
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Site Details

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VectorMap Local

Published 2015

Source map scale - 1:10,000

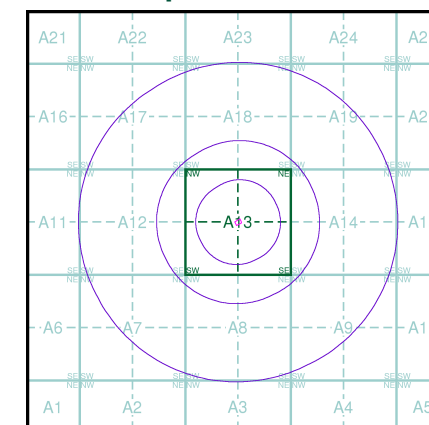
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

SO00NW
2015
Variable

SO00SW
2015
Variable

Historical Map - Slice A



Order Details

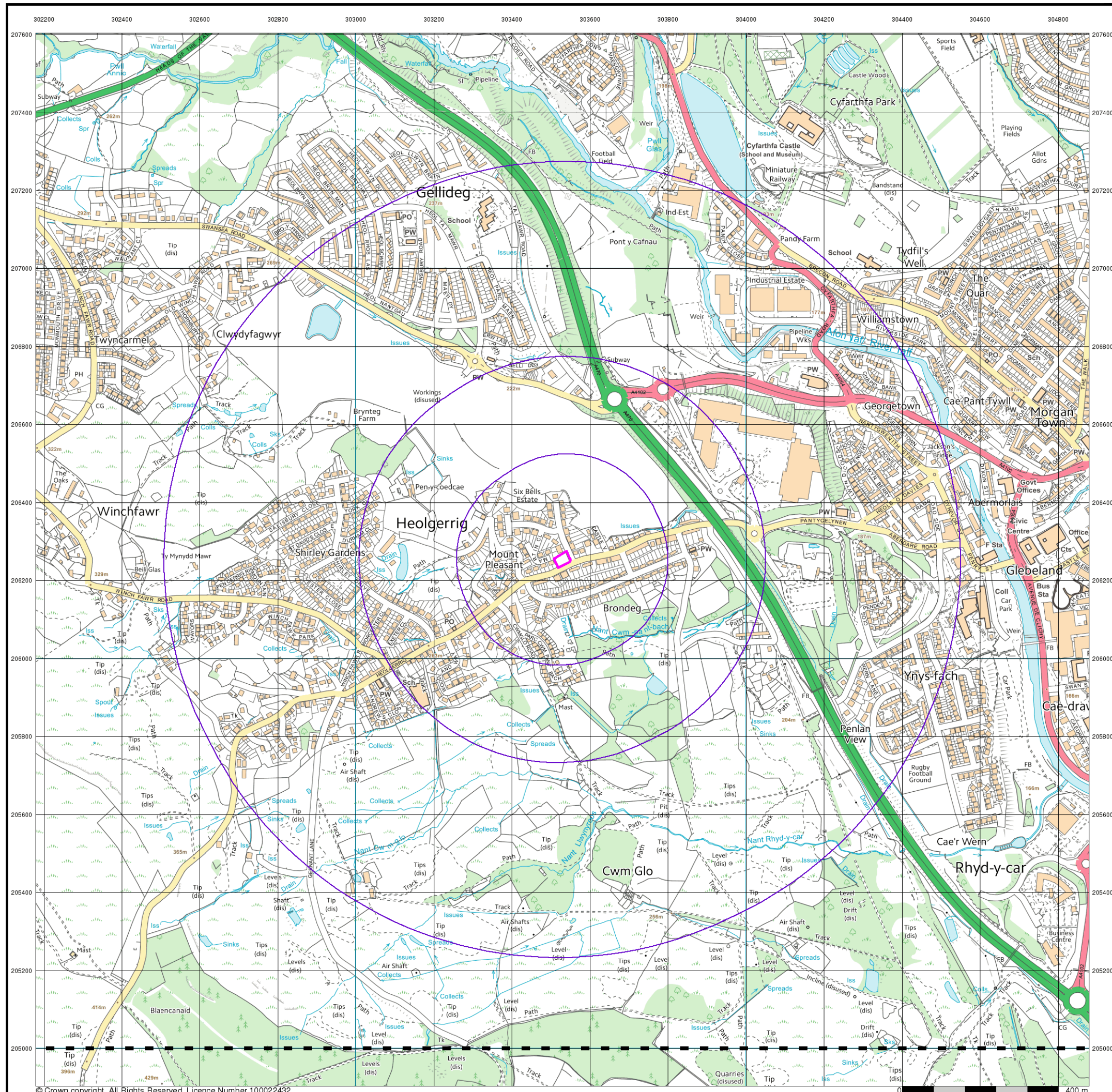
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Annex B
Coal Authority Report



Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG
Website: www.groundstability.com Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**BARRY TOMLINSON ARCHITECTURAL
SERVICES LTD
3 PENYCAMLAIS RICHWAY
RICH WAY
BRECON
LD3 7EH**

Our reference: **51000890690001**
Your reference: **4060 Lea**
Date of your enquiry: **01 June 2015**
Date we received your enquiry: **01 June 2015**
Date of issue: **01 June 2015**

This report is for the property described in the address below and the attached plan.

Non-Residential Coal Authority Mining Report

1 SIX BELLS ESTATE, HEOLGERRIG, MERTHYR TYDFIL, CF48 1TU

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

Information from the Coal Authority

Underground coal mining

Past

The property is in the likely zone of influence from workings in 1 seam of coal at shallow depth, and last worked in 1896.

Present

The property is not in the likely zone of influence of any present underground coal workings.

Future

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

Coal mining geology

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

Opencast coal mining

Past

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

Present

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

Future

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

Coal mining subsidence

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

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

The 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

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

Withdrawal of support

The property is not in an area for which a notice of entitlement to withdraw support has been published.

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

Working facilities orders

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

Payments to owners of former copyhold land

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Comments on Coal Authority information

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore 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 good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional Remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

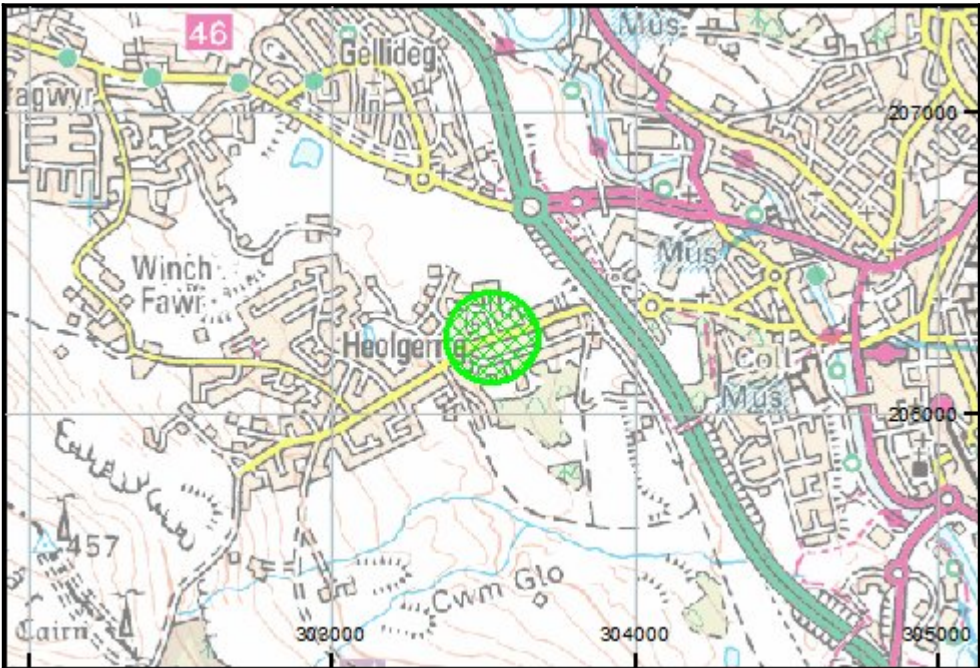
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Issued by:	The Coal Authority, 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG
Tax Point Date:	01 June 2015
Issued to:	BARRY TOMLINSON ARCHITECTURAL SERVICES LTD 3 PENYCAMLAIS RICHWAY RICH WAY BRECON LD3 7EH
Property Search for:	1 SIX BELLS ESTATE, HEOLGERRIG, MERTHYR TYDFIL, CF48 1TU
Reference Number:	51000890690001
Date of Issue:	01 June 2015
Cost:	£59.00
VAT @ 20%:	£11.80
Total Received:	£70.80
VAT Registration	598 5850 68

Location map



Approximate position of property



Enquiry boundary

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Key

Approximate position of enquiry boundary shown

