

Coal Mining Risk Assessment (CMRA)
Report: Land Adjacent to 15 Cae Rhys
Ddu, Cimla, SA11 1JB

Prepared for:
Mr Mike Roberts

February 2018

Job No: 14582



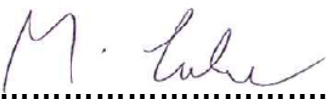
REPORT TITLE : **Coal Mining Risk Assessment (CMRA)
Report: Land Adjacent to 15 Cae Rhys
Ddu, Cimla, SA11 1JB**

REPORT STATUS : **Final**

JOB NUMBER : **14582**

DATE : **February 2018**

PREPARED BY : 
.....
(Mrs R. Howells)

REVIEWED BY : 
.....
(Mr M. Lake)

APPROVED BY : 
.....
(Dr G. C. Lake)

Executive Summary

Mr and Mrs Roberts are proposing the residential development of a plot of land adjacent to 15 Cae Rhys Ddu, Cimla.

The site remained undeveloped until construction of several buildings during the 1960s and 1970s.

Geologically, the site is underlain by sandstone of the Swansea Beds of the Upper Pennant Measures. The conjectural outcrop of the Graigola Coal Seam is seen to situate just west of the site. This seam is expected to underlie the site at shallow depth.

A Coal Authority Mining Report for the site records the mining of two coal seams beneath the site, at 90m and 280m depth. The last date of working is 1903. Any ground movement associated with these workings should now have stopped.

However, the Coal Authority also states that the site lies in an area where coal is believed to lie at or close to the surface which could have been worked at some time in the past. This refers to the Graigola coal seam.

There is no record of this seam being worked beneath the site. However, the seam is of workable thickness and the geological map records crop workings of the seam in the area. Online sources also record the working of the Graigola seam from Gnoll House Colliery approximately 400m to the east.

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 unrecorded workings exist within the Graigola coal seam this criteria is unlikely to be satisfied.

It is therefore recommended that a physical site investigation be performed to establish the geological conditions and presence and thickness of the Graigola seam.

This should entail the sinking of a number of rotary probeholes beneath the footprint of the proposed new houses.

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SECTION 1 Introduction and Proposed Development

Mr and Mrs Roberts are proposing the residential development of a plot of land adjacent to 15 Cae Rhys Ddu, Cimla.

Asbri Planning Limited is the Planning and Development Consultant.

Terra Firma (Wales) Limited has been commissioned by Asbri Planning Limited, on behalf of Mr and Mrs Roberts, to undertake a Coal Mining Risk Assessment (CMRA) 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 likely to be present beneath the site.
- Determine the likely 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

Mr and Mrs Roberts have requested that a Coal Mining Risk Assessment (CMRA) Report be carried out.

The report has been prepared for the sole internal reliance of Mr and Mrs Roberts 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 comprises a triangular parcel of land adjacent to 15 Cae Rhys Ddu, in the southwest of Cimla.

It is centred on a National Grid Reference of 275960 196120 and occupies an approximate plan area of 0.08 hectares.

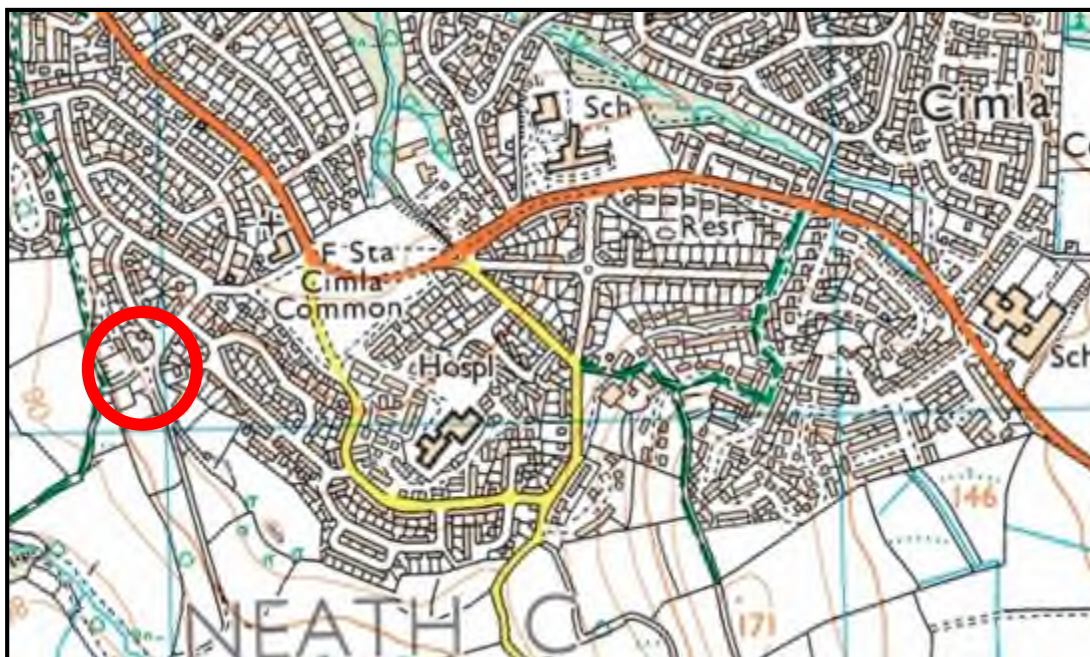


Figure 2.1: Site Location – OS Map 165 Swansea

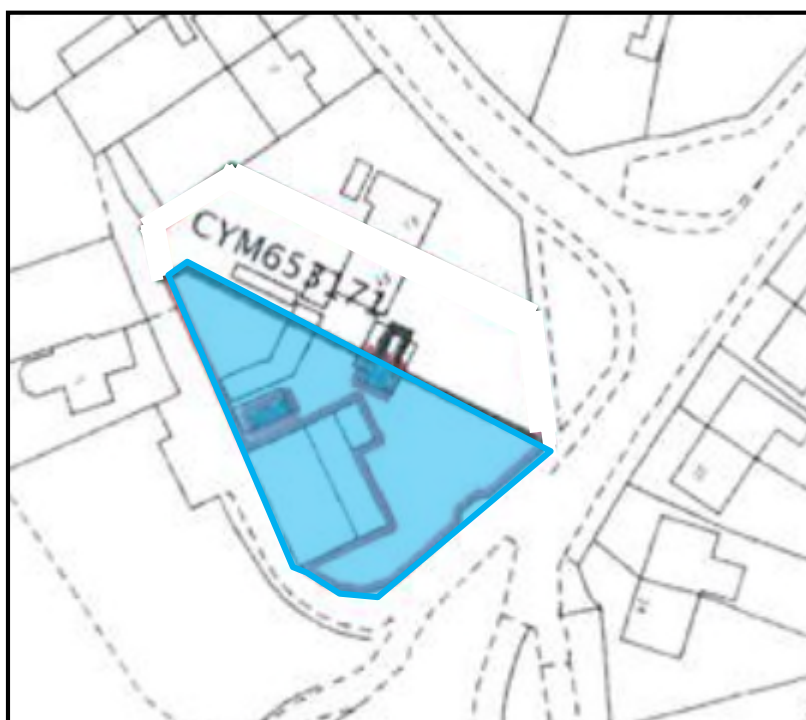


Figure 2.2: Site Layout

2.2 History

The history of the site has been traced using historical Ordnance Survey maps obtained from Landmark Information Group. These are presented in **Annex A**. A summary of the history of the site is given below. Distances, where quoted are approximate.

1881

The site in 1881 is seen to be located within the southern corner of a field. A lane defines its south-eastern boundary and a property lies on land directly west. A coal pit is denoted 140m to the south-southwest. Several old quarries and wells are also recorded in the surrounding area.

1899/1900

The site remains unchanged. Westernmoor Cottages have been built on land directly west of the site. The coal pit present in 1881 is no longer shown but a number of old coal pits and levels are illustrated within 500m of the site.

1919

An old quarry is now seen to occupy the south-eastern half of the site.

1935/1936

There have been no notable changes to the site or adjacent areas. Some residential development of the wider surrounding area has occurred.

1951

The site remains unchanged.

1964

By 1964 continued residential development has seen the erection of housing directly north of the site, including No.15 Cae Rhys Ddu. A building is also shown to have been constructed on site, which appears to be non-residential, suggesting infill of the former quarry.

1973/1974

Several additional small structures have been built on site.

2018

There have been no notable changes to the site or immediate surrounding area since 1974.

2.3 Geology

The 1:10,560 scale geological map of the area (Sheet SS 79 NE) shows the site to be underlain by sandstone of the Swansea Beds of the Upper Pennant Measures strata of Carboniferous Age.

An extract from the geology map is presented in **Figure 2.3**. The site is highlighted in red.



Figure 2.3: Extract From Geological Map

The conjectural outcrop of the Graigola Coal Seam is seen to situate just west of the site. The generalised vertical section records the Graigola seam to be 5ft (1.5m) in thickness.

The strata are indicated to dip towards the northeast at an incline of 12 degrees. This seam is therefore likely to underlie the site at shallow depth.

Crop workings of the Graigola seam are indicated to the southeast and to the north.

Several thin coals lie lower in the geological succession, and the Shenkin coal seam is indicated to be at approximately 80m below the Graigola seam.

No superficial deposits are shown to overlie the solid geology, but a cover of deposits derived from weathered bedrock may be expected.

Fill material is likely to be present at the location of the former quarry.

2.4 Mining

A Coal Authority Mining Report was obtained for the site. This is presented in **Annex B**.

The report records the mining of two coal seams beneath the site, at 90m and 280m depth. The last date of working is 1903. Any ground movement associated with these workings should now have stopped.

The seam at 90m is interpreted to be the Shenkin coal.

However, the Coal Authority also states that the site lies in an area where coal is believed to lie at or close to the surface which could have been worked at some time in the past. This refers to the Graigola coal seam.

There are no known mine entries upon the site or within 20m of the site boundary. The Coal Authority does note that mine entries may exist of which they have 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 50m of the ground surface is taken to be:

- Superficial Deposits / Quarry Backfill
- Completely Weathered Measures
- **Graigola Coal Seam**
- Measures

The Graigola seam is anticipated to lie within 30m of the surface of the site.

There is no record of this seam being worked beneath the site.

The geological map records crop workings of the seam in the area, and online sources record the working of the Graigola seam from Gnoll House Colliery approximately 400m to the east.

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 unrecorded workings exist within the Graigola coal seam this criteria is unlikely to be satisfied.

It is therefore recommended that a physical site investigation be performed to establish the geological conditions and presence and thickness of the Graigola seam.

This should entail the sinking of a number of rotary probeholes beneath the footprint of the proposed new houses.

The probeholes should be taken to a depth of 30m into bedrock.

Any workings with ≥ 30 m rockhead cover are not deemed to present a significant risk from collapse at the surface.

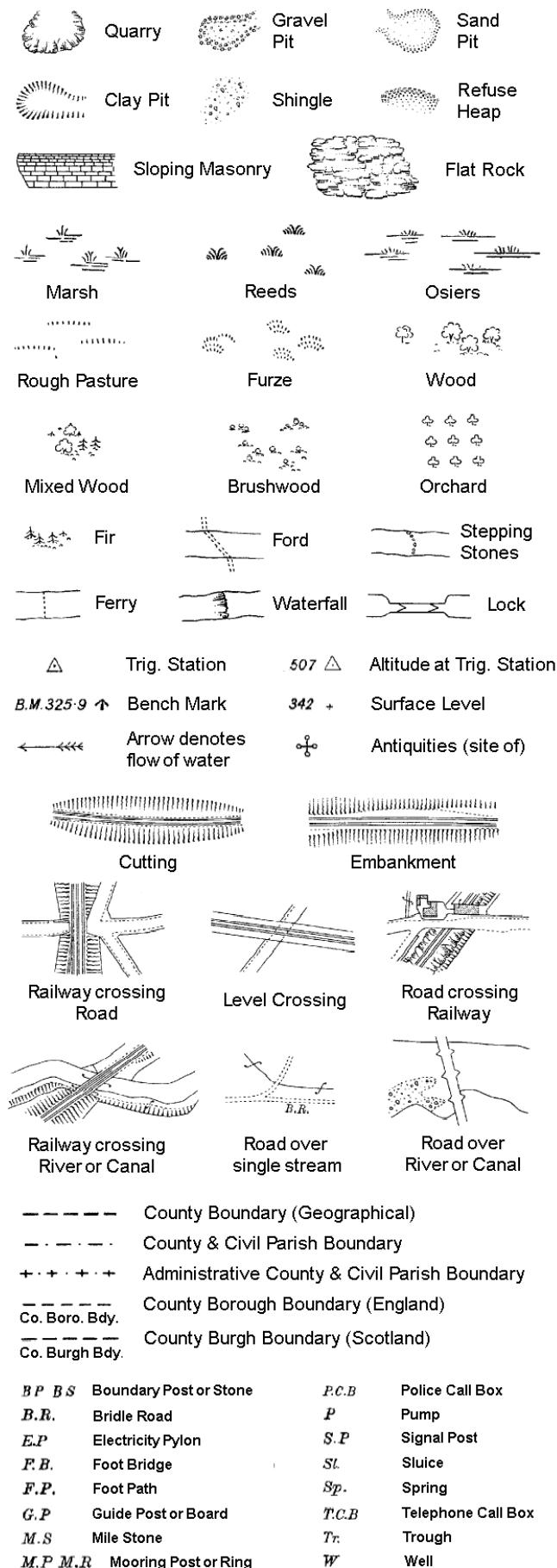
Appropriate permission should be sought from the Coal Authority prior to any site investigation works.

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.

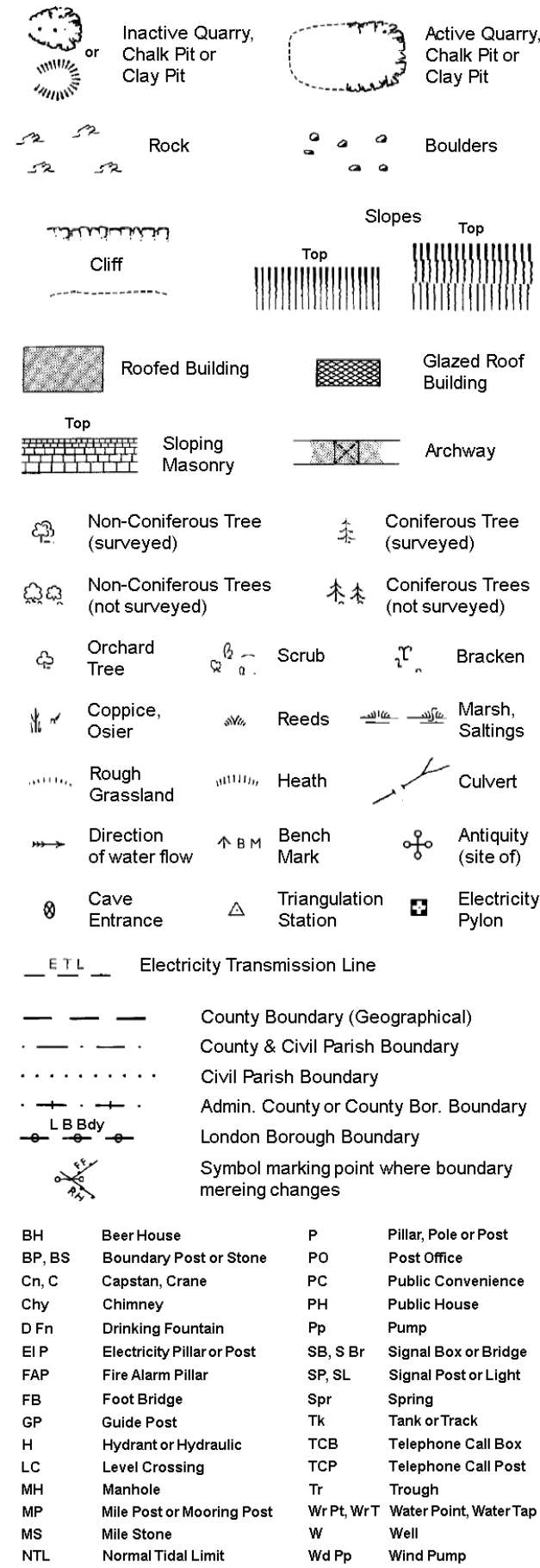
Annex A
Landmark Historical Maps

Historical Mapping Legends

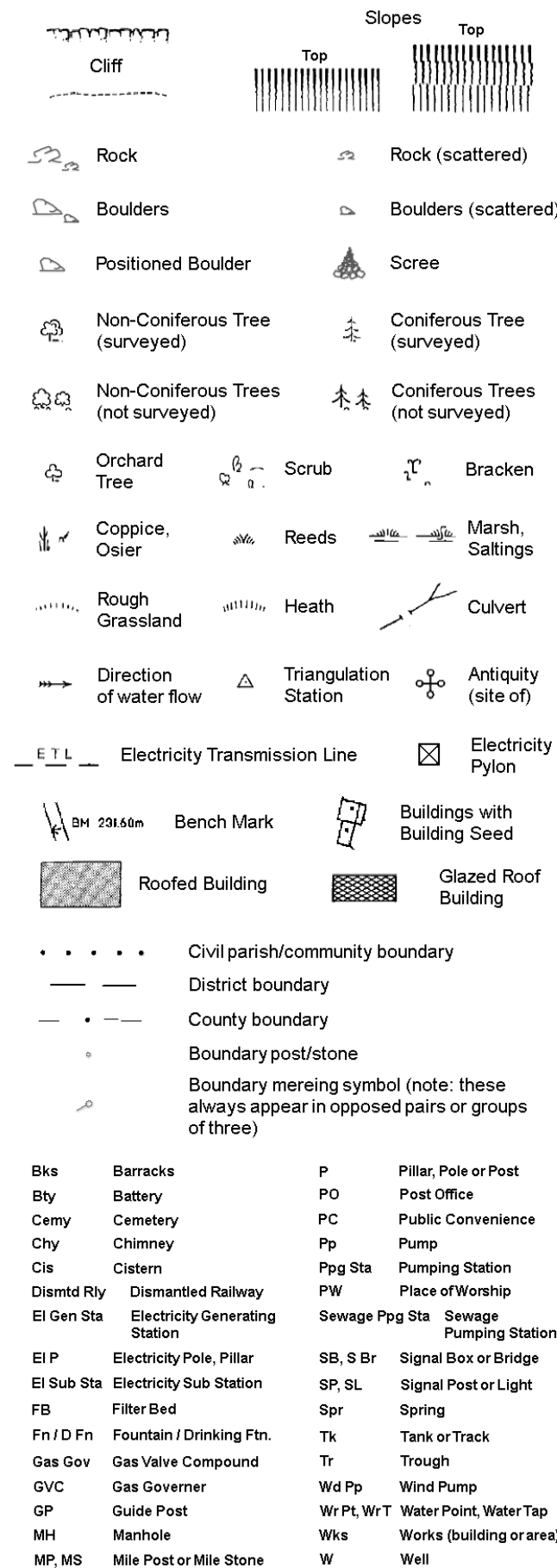
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



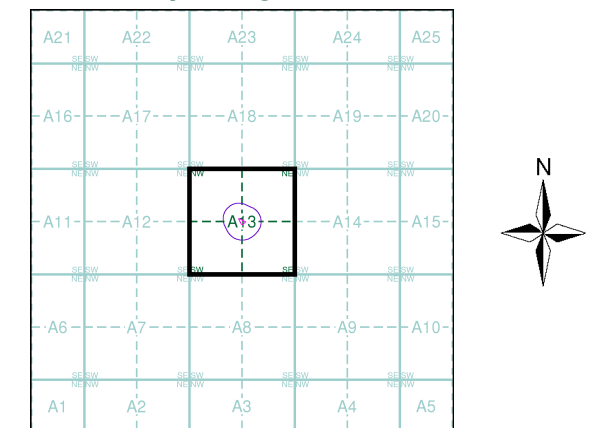
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Glamorganshire	1:2,500	1881	2
Glamorganshire	1:2,500	1899	3
Glamorganshire	1:2,500	1919	4
Glamorganshire	1:2,500	1935	5
Ordnance Survey Plan	1:1,250	1949 - 1967	6
Ordnance Survey Plan	1:2,500	1952 - 1970	7
Ordnance Survey Plan	1:1,250	1956 - 1957	8
Ordnance Survey Plan	1:1,250	1963 - 1974	9
Ordnance Survey Plan	1:2,500	1964	10
Ordnance Survey Plan	1:1,250	1971	11
Additional SIMs	1:2,500	1978	12
Additional SIMs	1:2,500	1985	13
Additional SIMs	1:1,250	1989	14
Large-Scale National Grid Data	1:1,250	1993	15
Large-Scale National Grid Data	1:2,500	1993	16
Historical Aerial Photography	1:2,500	2000	17

Historical Map - Segment A13



Order Details

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National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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



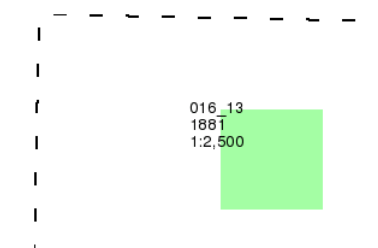
Glamorganshire

Published 1881

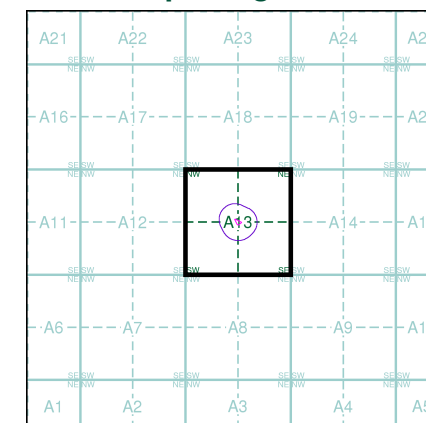
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered 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)



Historical Map - Segment A13



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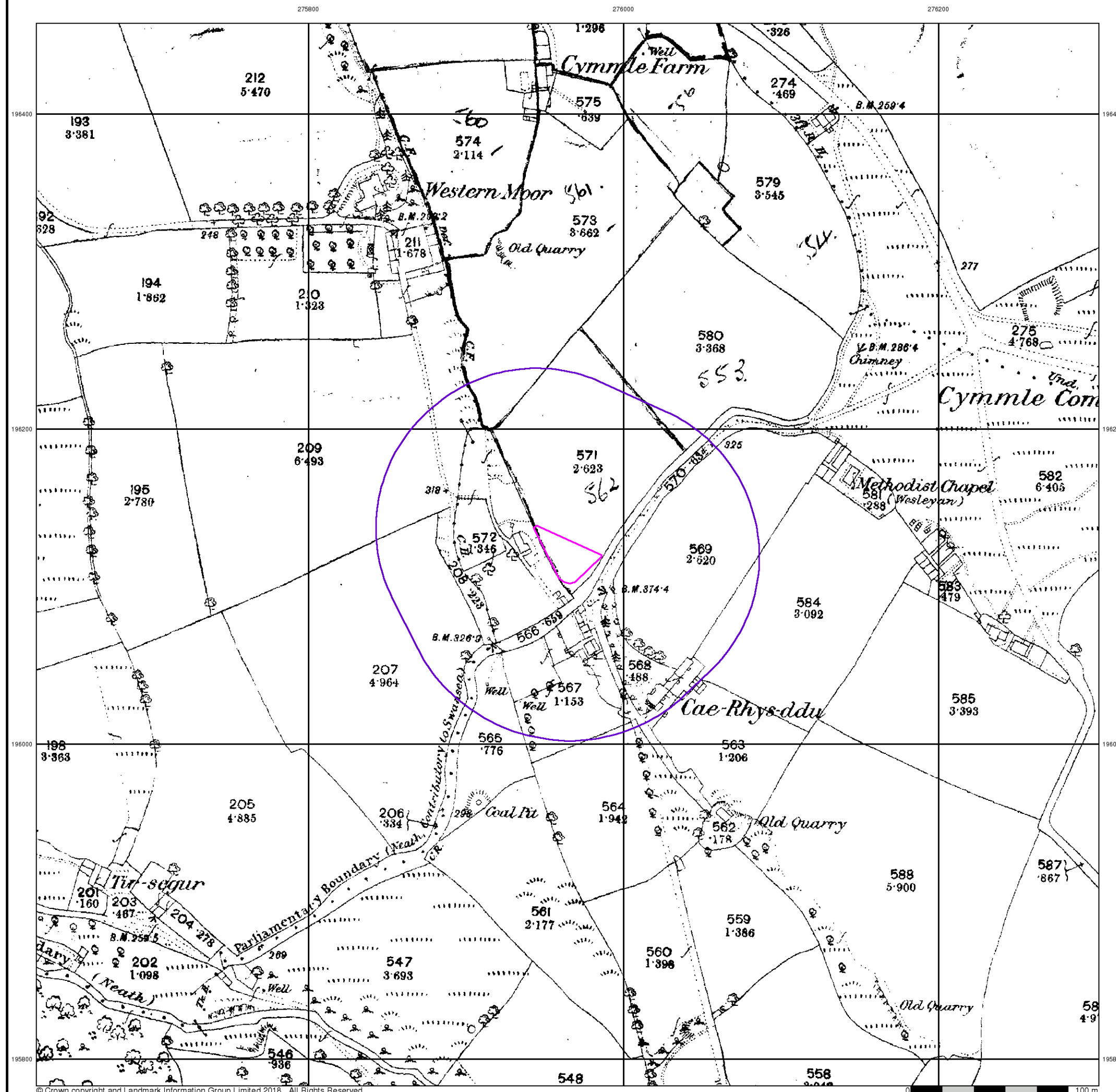
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Landmark
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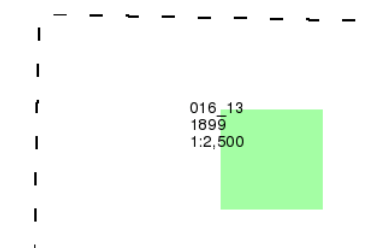
Glamorganshire

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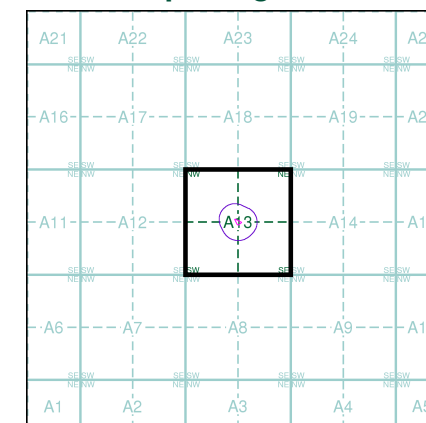
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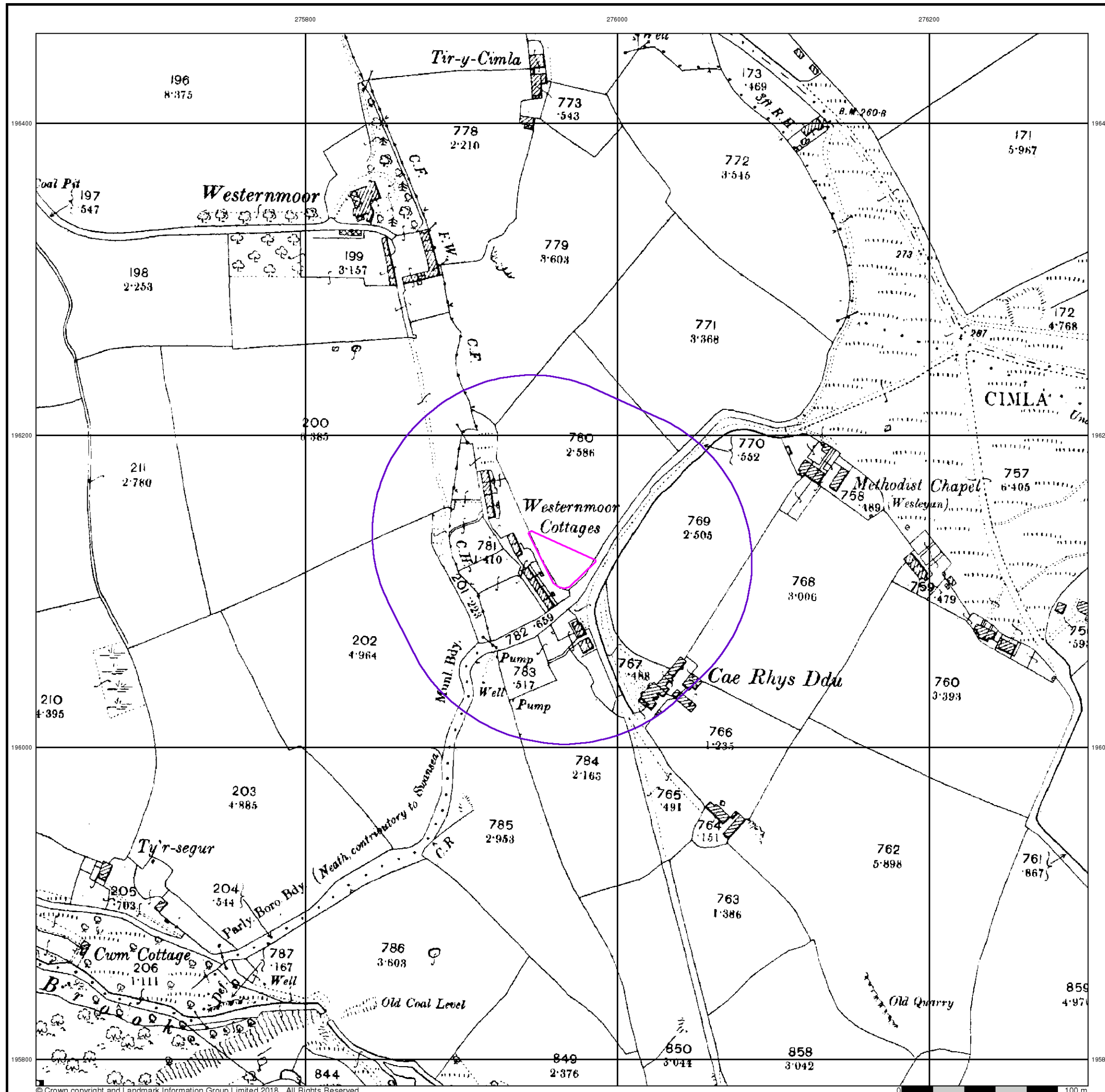
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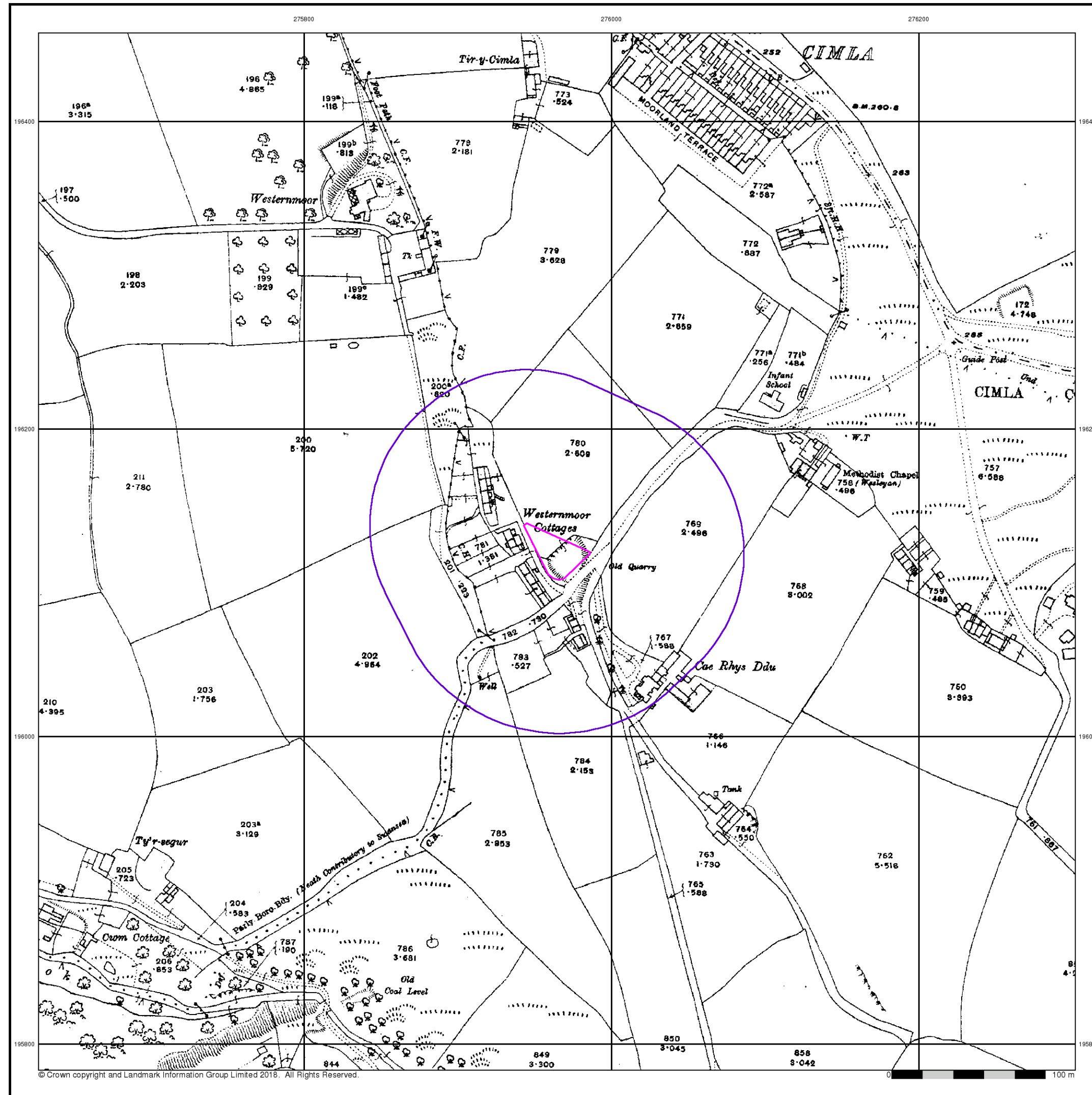
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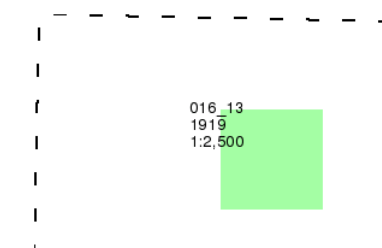
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Published 1919

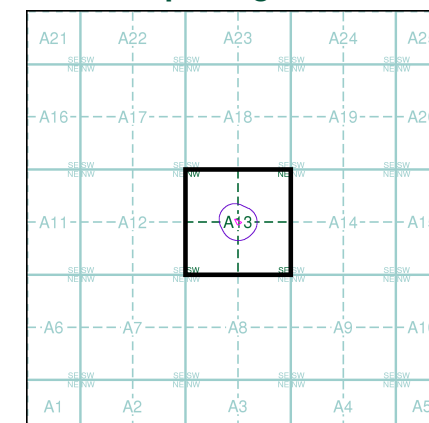
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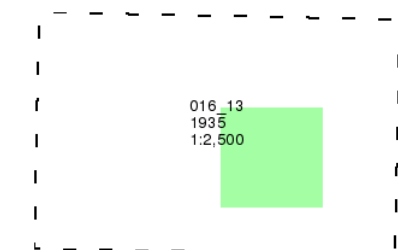
Glamorganshire

Published 1935

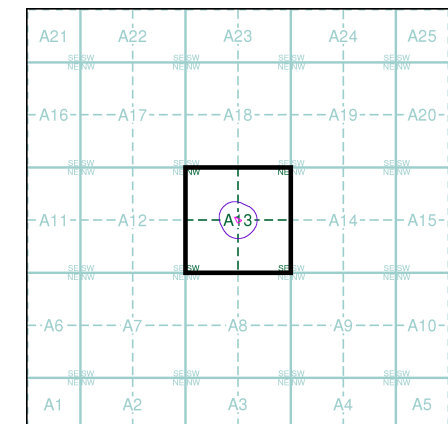
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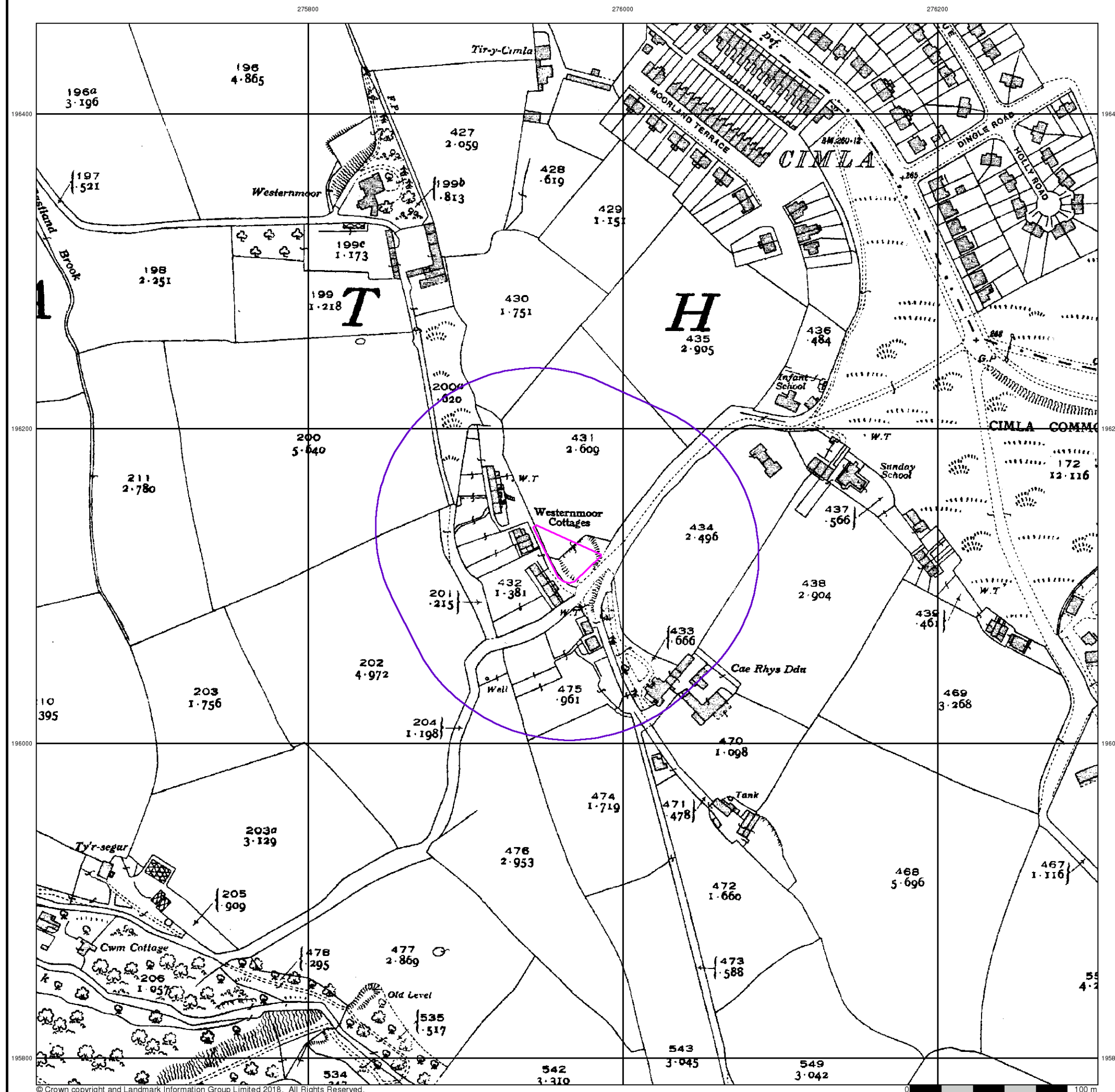
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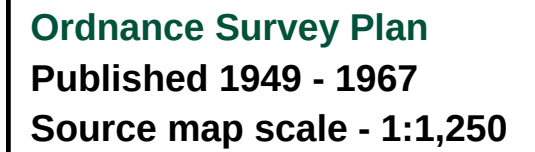
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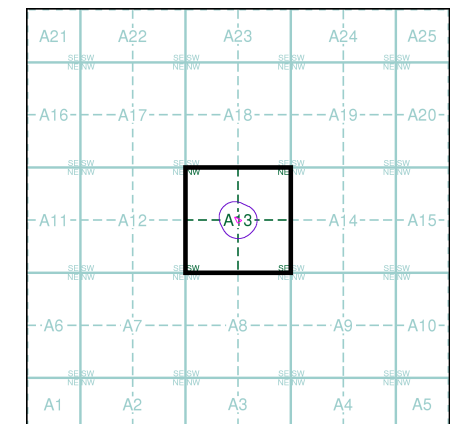




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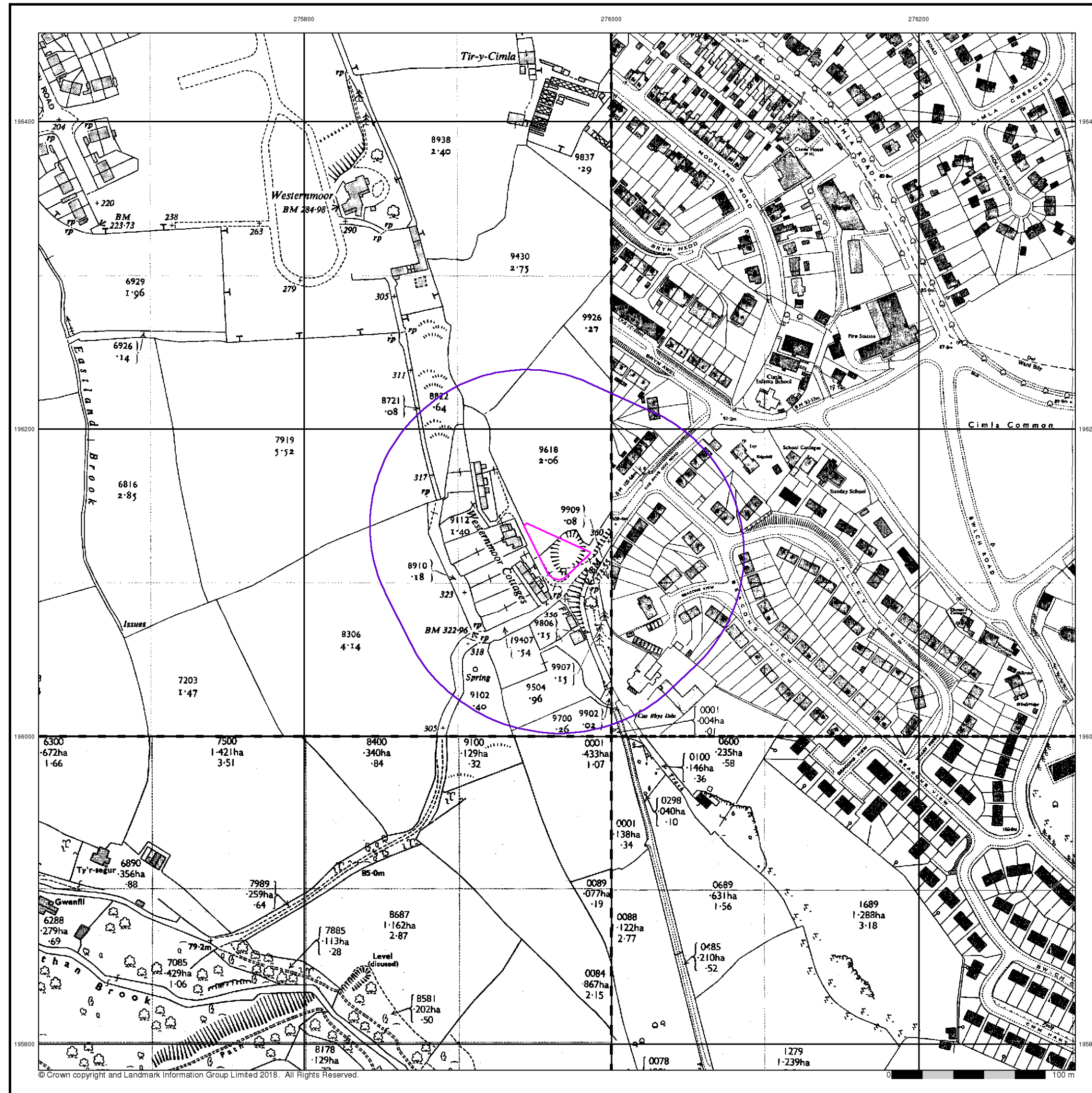
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Ordnance Survey Plan

Published 1952 - 1970

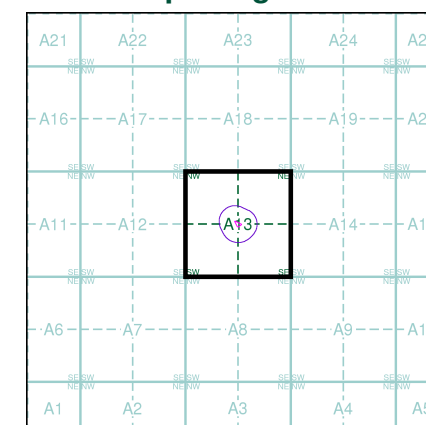
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Historical Map - Segment A13



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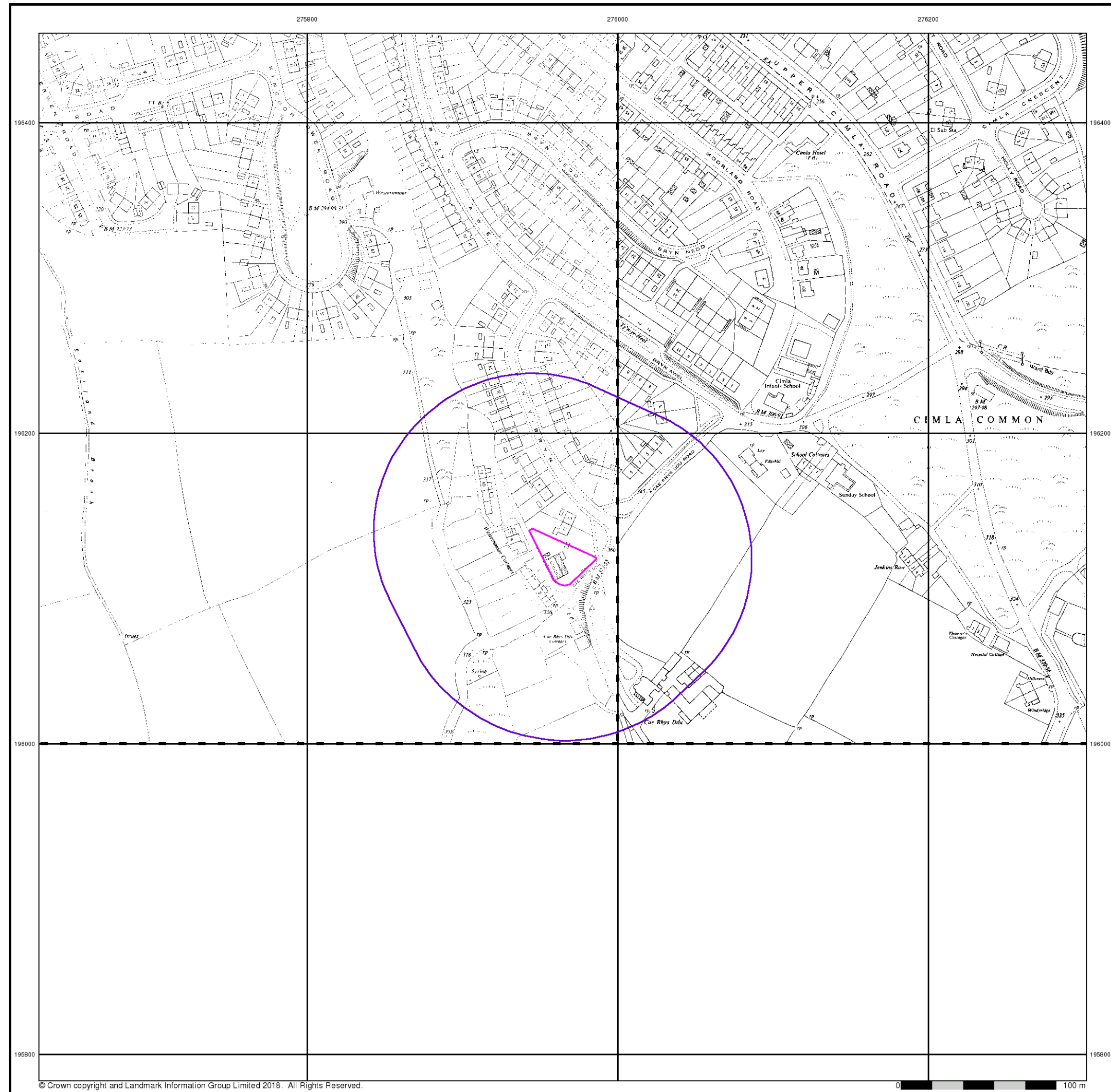
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Ordnance Survey Plan

Published 1956 - 1957

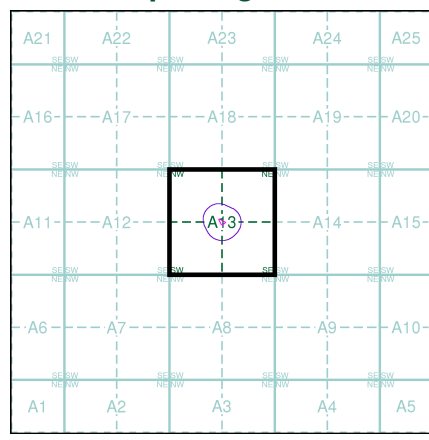
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Historical Map - Segment A13



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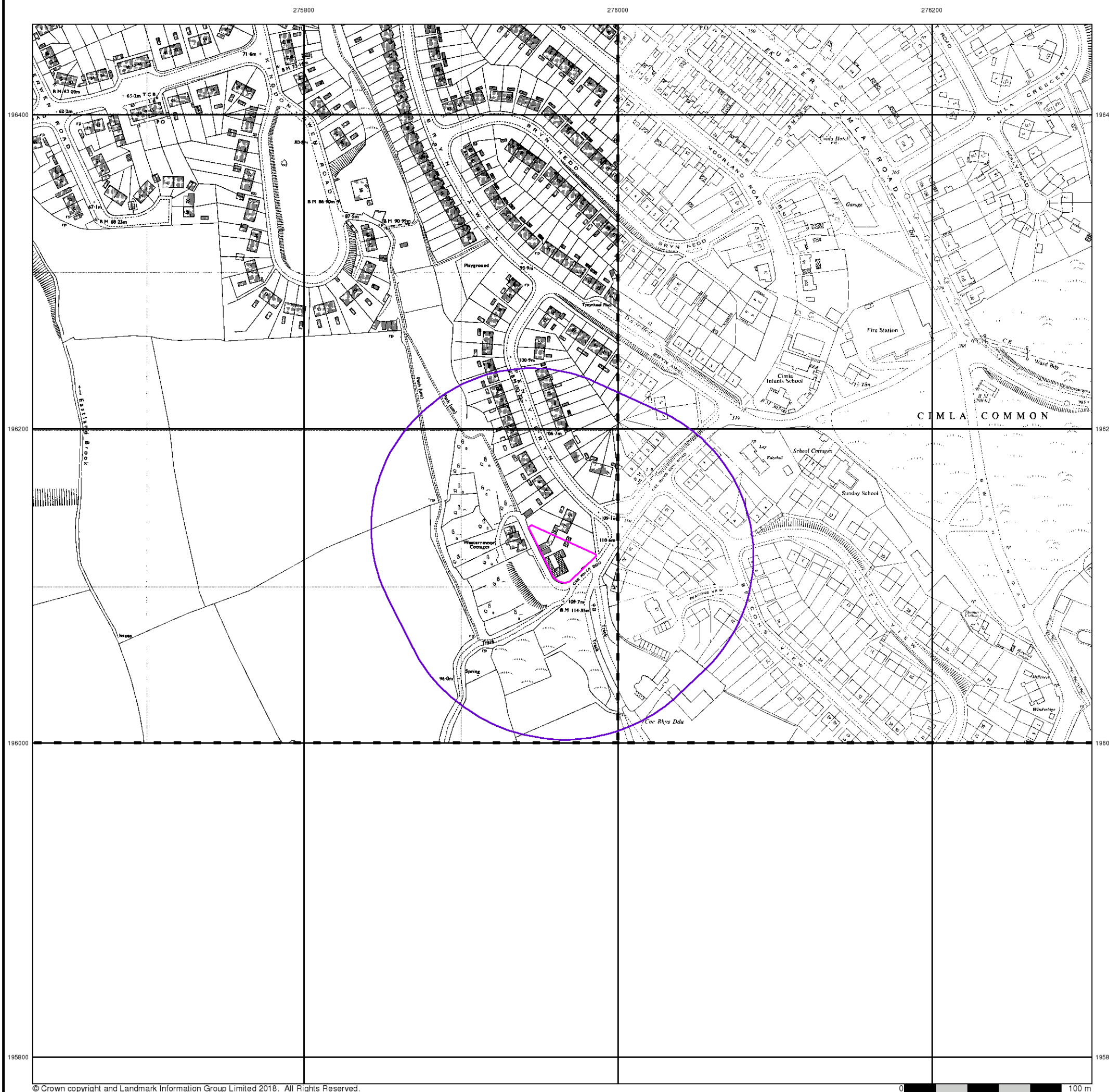
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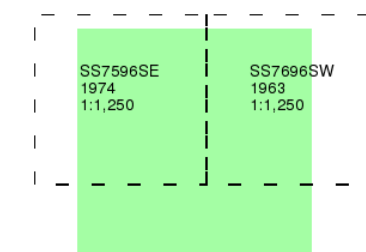
Ordinance Survey Plan

Published 1963 - 1974

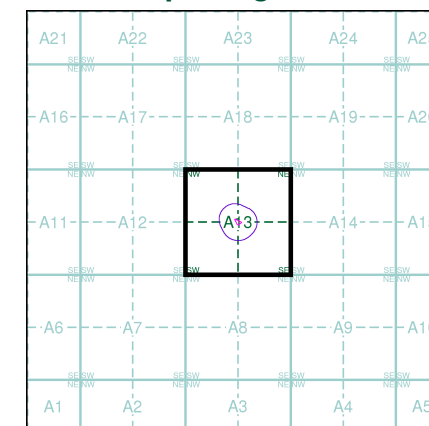
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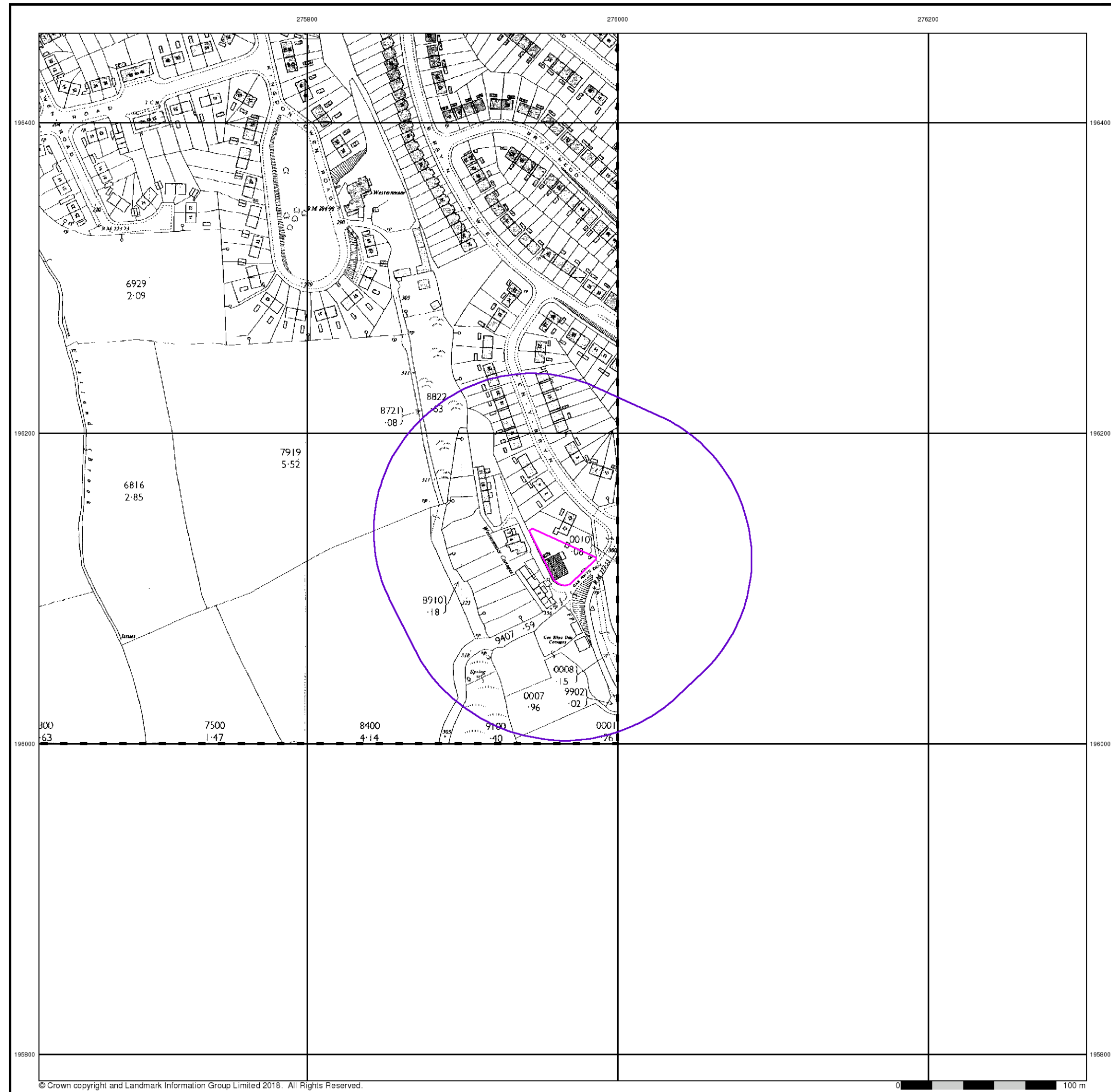
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Landmark®
INFORMATION GROUP

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Web: www.envirocheck.co.uk



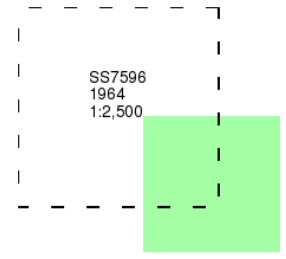
Ordnance Survey Plan

Published 1964

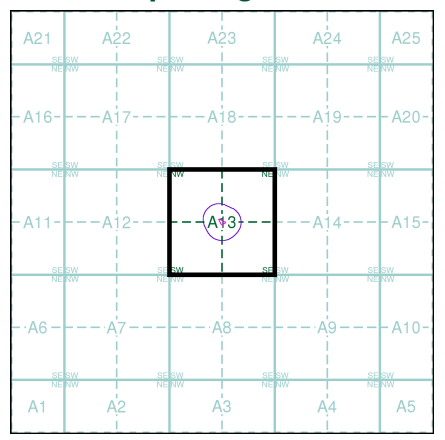
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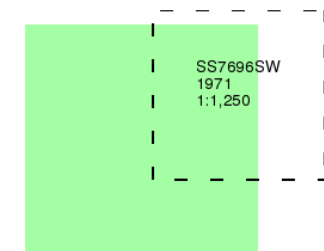
Ordnance Survey Plan

Published 1971

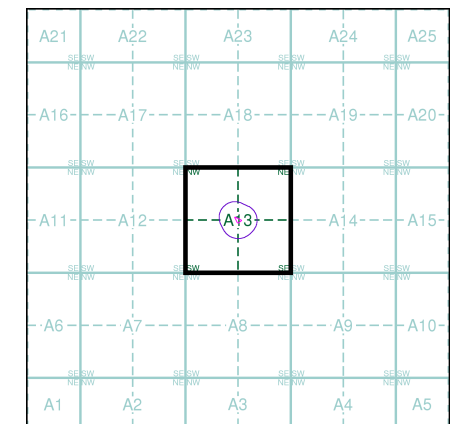
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

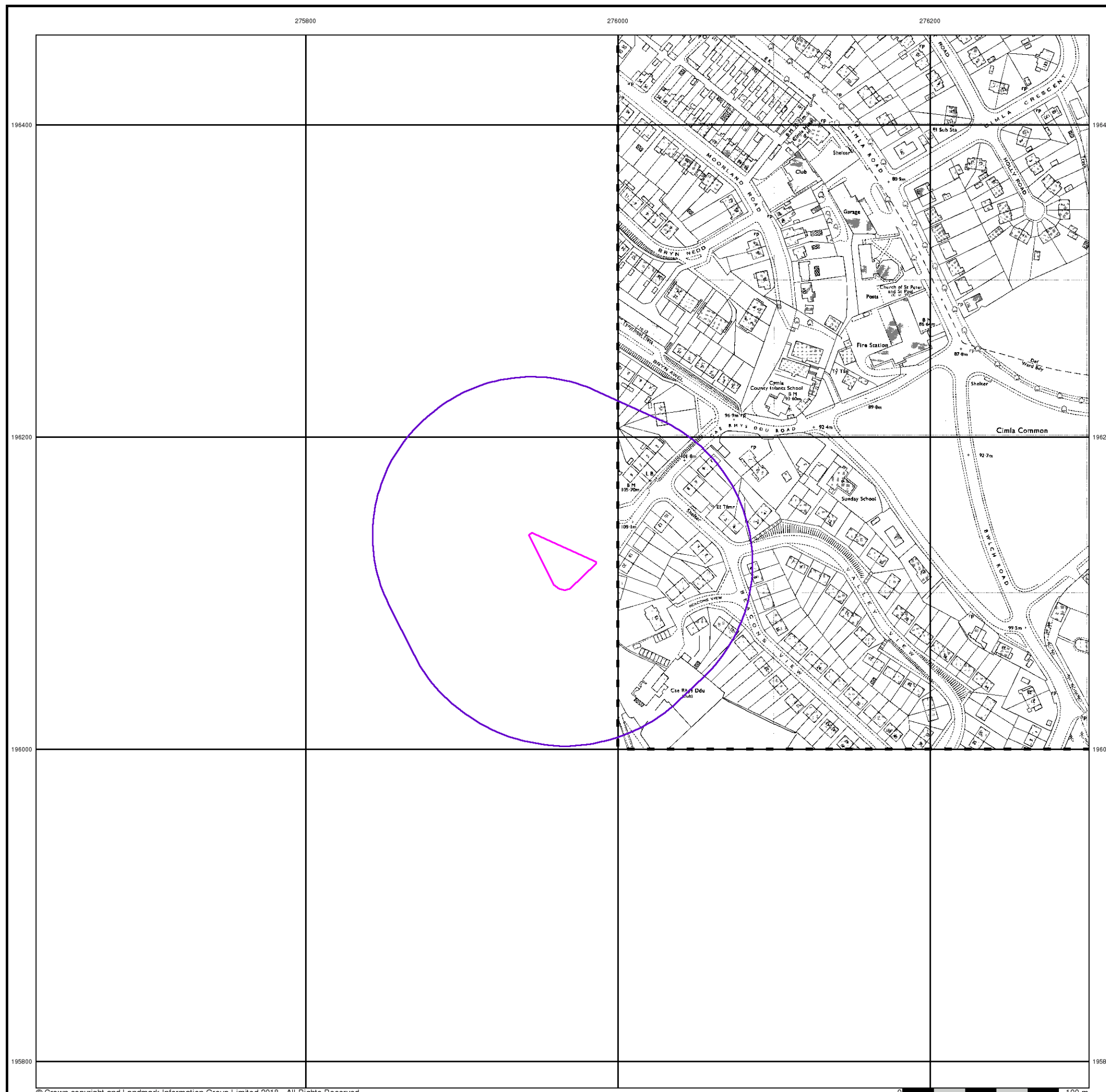
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Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

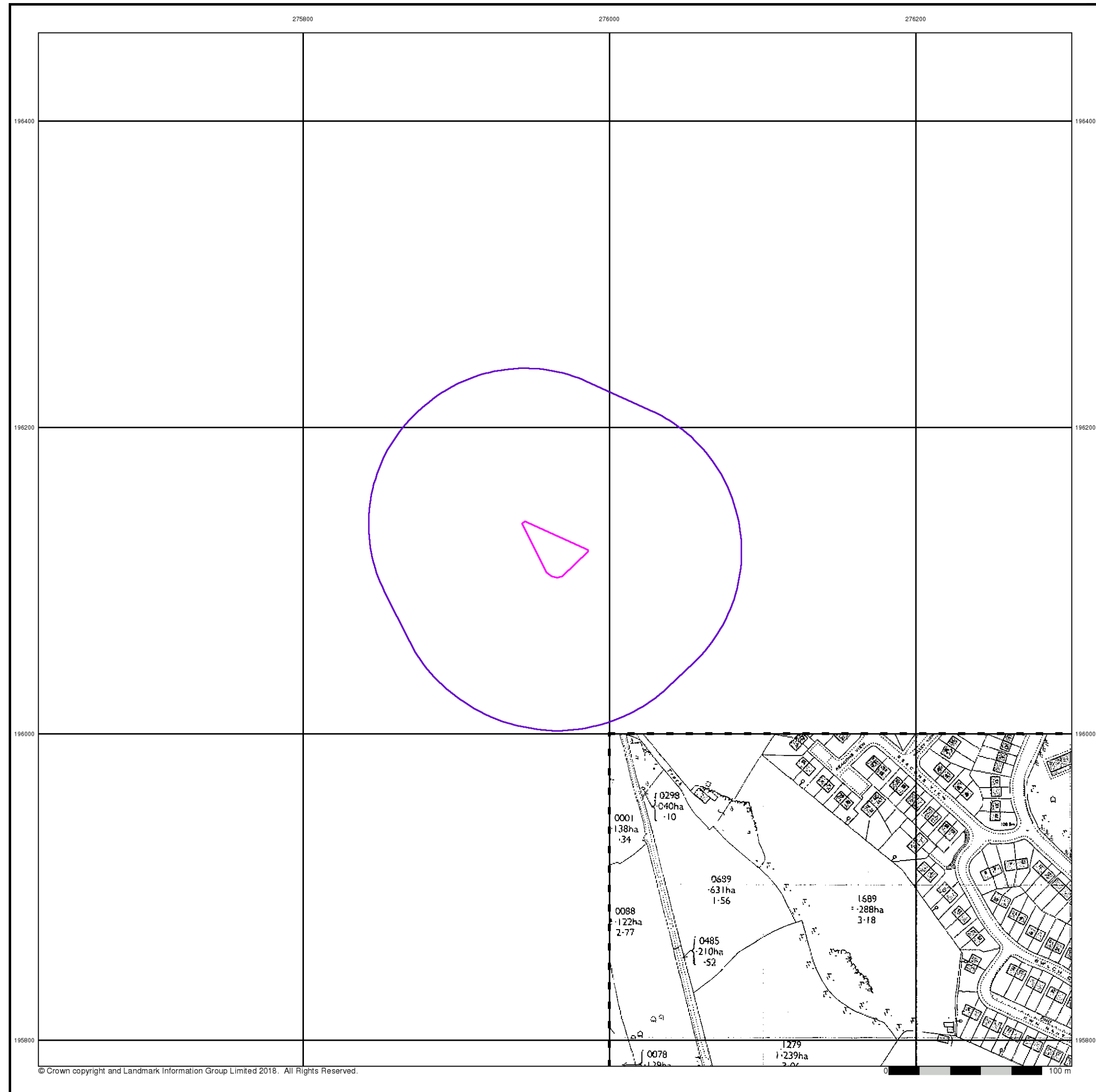
Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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

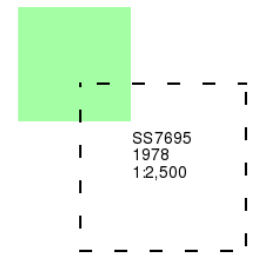




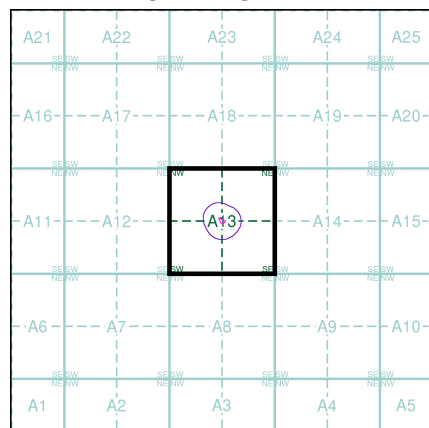
Additional SIMs
Published 1978
Source map scale - 1:2,500

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: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

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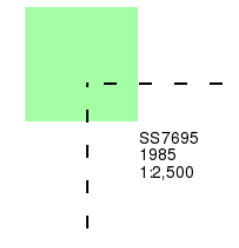
Additional SIMs

Published 1985

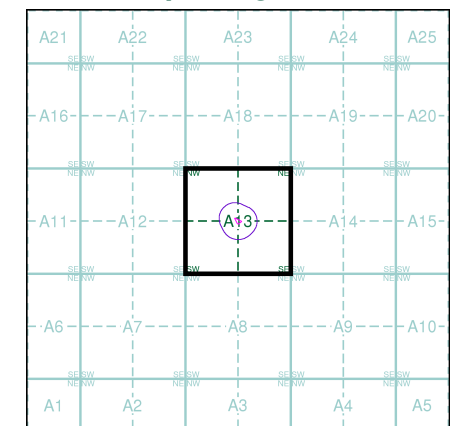
Source map scale - 1:2,500

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

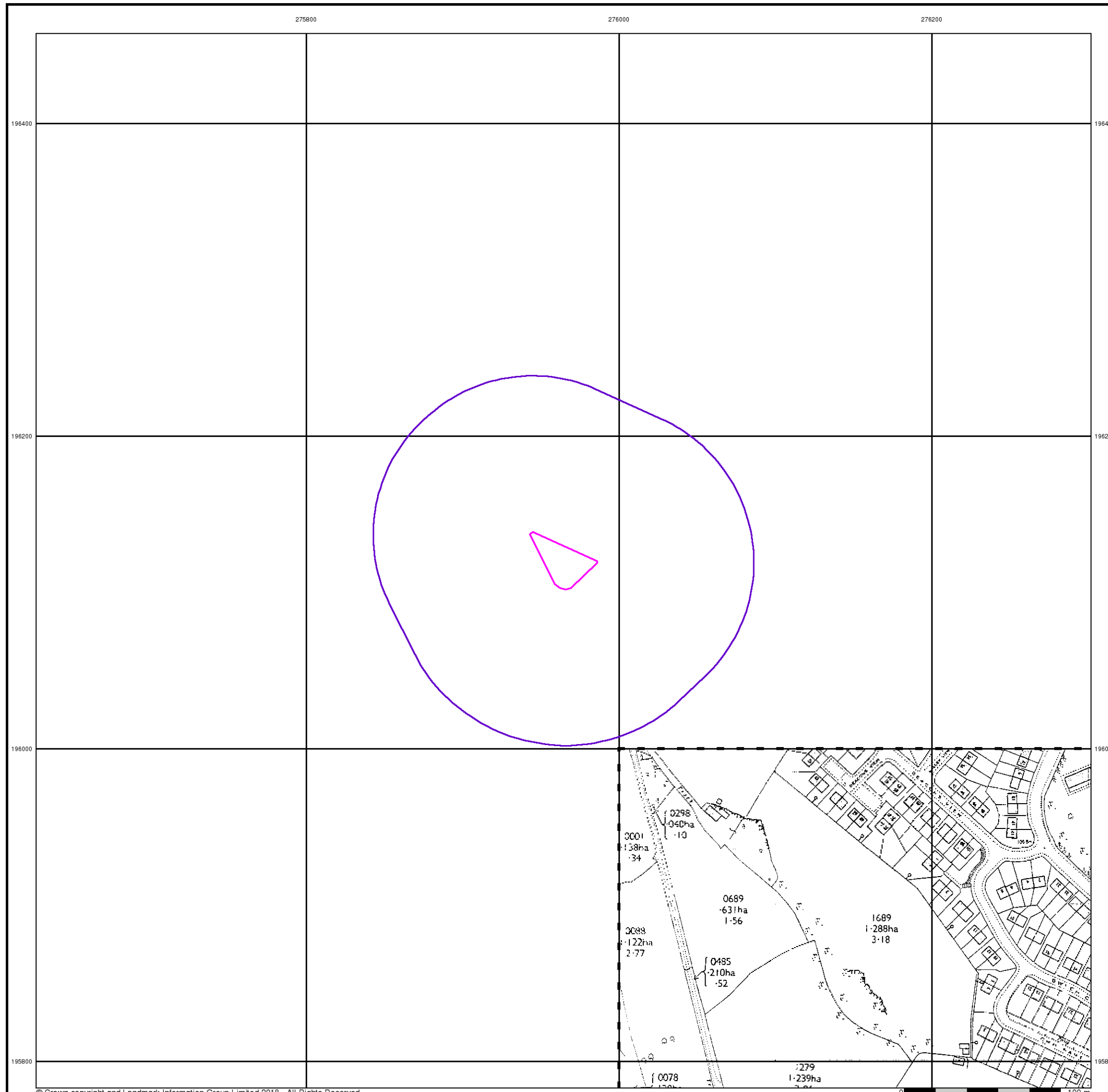
Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1993

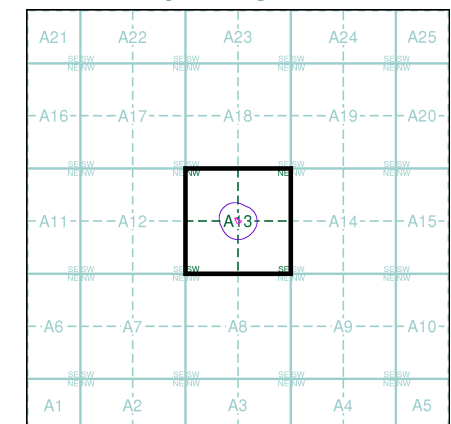
Source map scale - 1:1,250

'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)

SS7596SE 1993 1:1,250	SS7696SW 1993 1:1,250
SS7695NW 1993 1:1,250	

Historical Map - Segment A13



Order Details

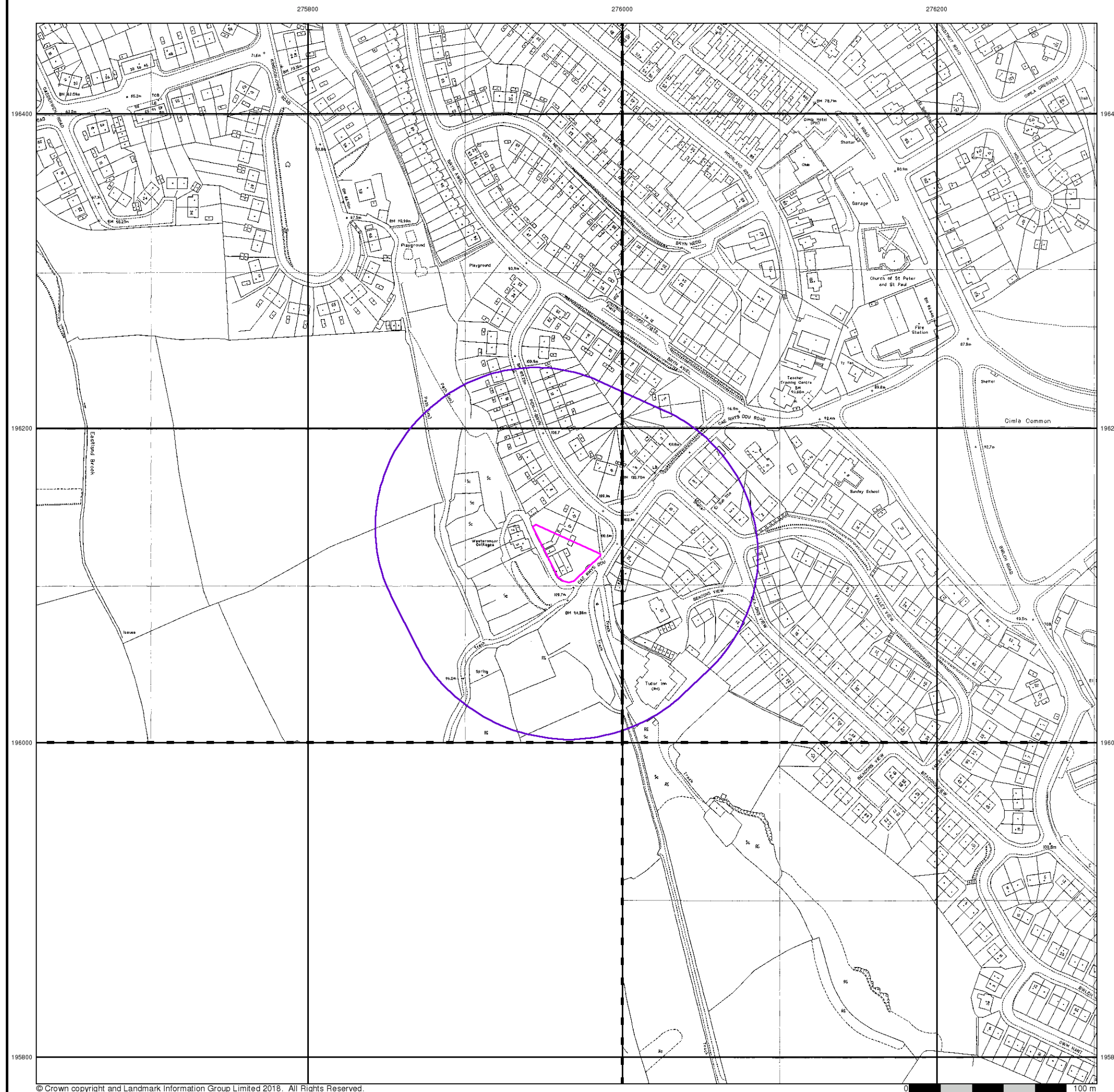
Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

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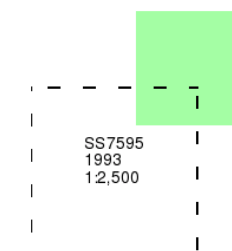
Large-Scale National Grid Data

Published 1993

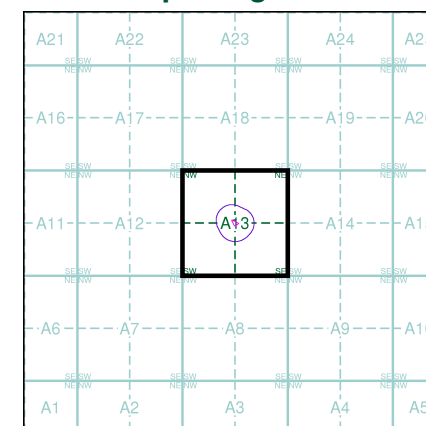
Source map scale - 1:2,500

'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: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
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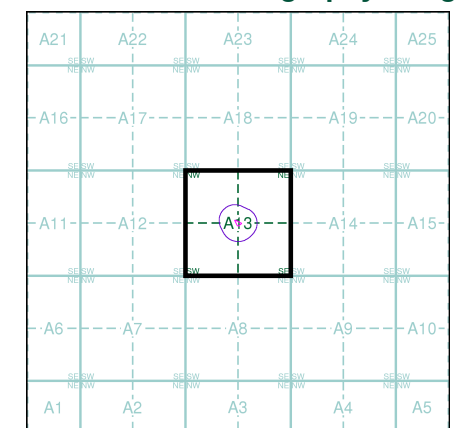


Historical Aerial Photography

Published 2000

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
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 Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

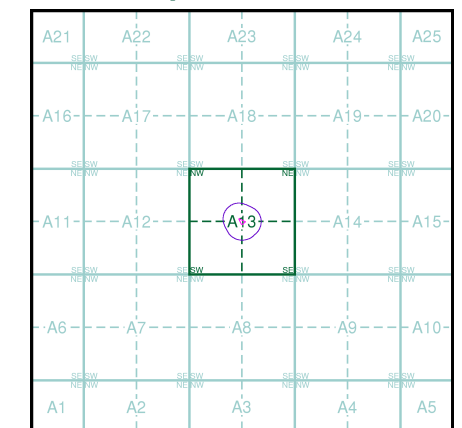
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
Glamorganshire	1:10,560	1884	2
Glamorganshire	1:10,560	1900	3
Glamorganshire	1:10,560	1921	4
Glamorganshire	1:10,560	1936	5
Glamorganshire	1:10,560	1938 - 1951	6
Historical Aerial Photography	1:10,560	1945 - 1949	7
Glamorganshire	1:10,560	1951	8
Ordnance Survey Plan	1:10,000	1964 - 1965	9
Ordnance Survey Plan	1:10,000	1970 - 1974	10
Ordnance Survey Plan	1:10,000	1980 - 1983	11
Ordnance Survey Plan	1:10,000	1992 - 1996	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2018	15

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Glamorganshire

Published 1884

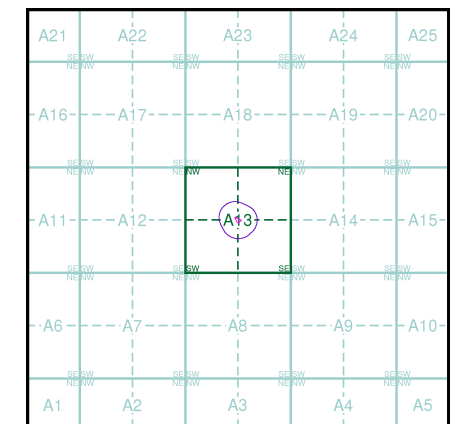
Source map scale - 1:10,560

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)

01600
1884
1:10,560
02500
1884
1:10,560

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
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Search Buffer (m): 1000

Site Details

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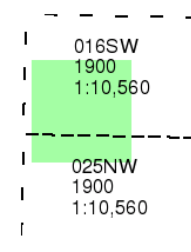
Glamorganshire

Published 1900

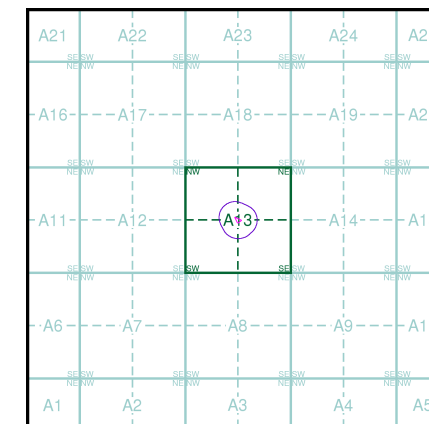
Source map scale - 1:10,560

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: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Glamorganshire

Published 1921

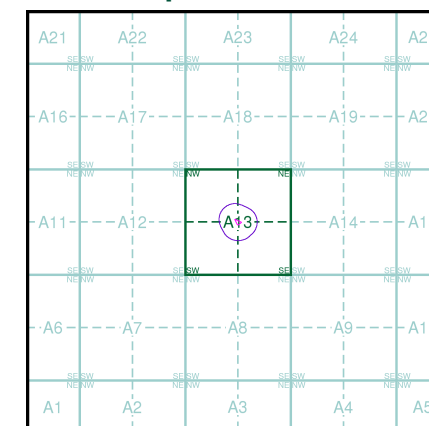
Source map scale - 1:10,560

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)

016SW
1921
1:10,560
025NW
1921
1:10,560

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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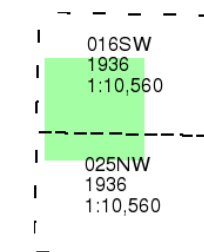
Glamorganshire

Published 1936

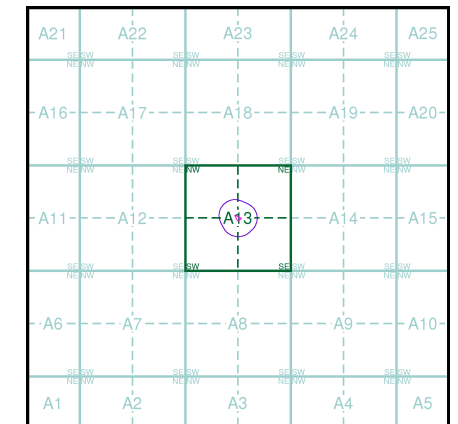
Source map scale - 1:10,560

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: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

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Glamorganshire

Published 1938 - 1951

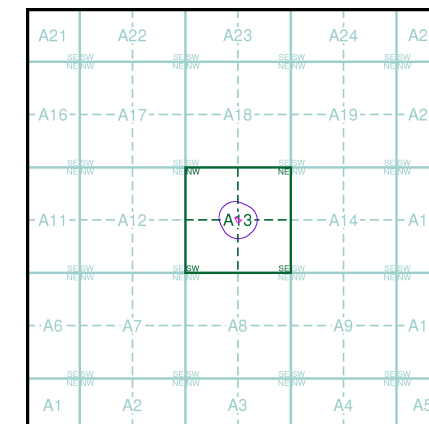
Source map scale - 1:10,560

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)

016SW
1938
1:10,560
025NW
1951
1:10,560

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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Historical Aerial Photography

Published 1945 - 1949

Source map scale - 1:10,560

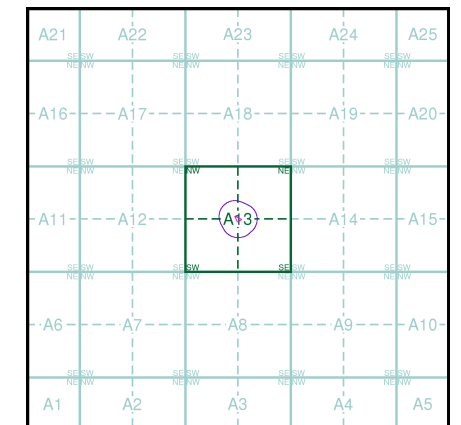
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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)

SS79NW 1945 1:10,560	SS79NE 1949 1:10,560
SS79SW 1949 1:10,560	SS79SE 1949 1:10,560

Historical Aerial Photography - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
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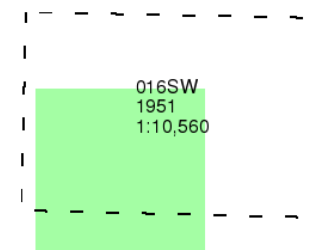
Glamorganshire

Published 1951

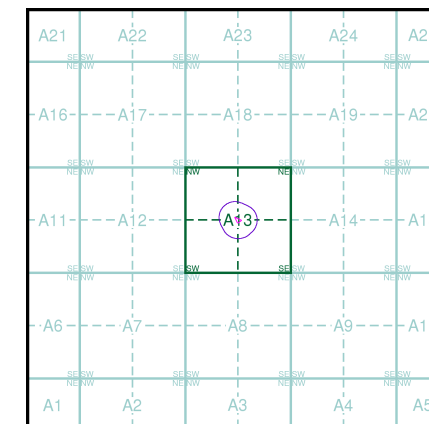
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
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Ordnance Survey Plan

Published 1964 - 1965

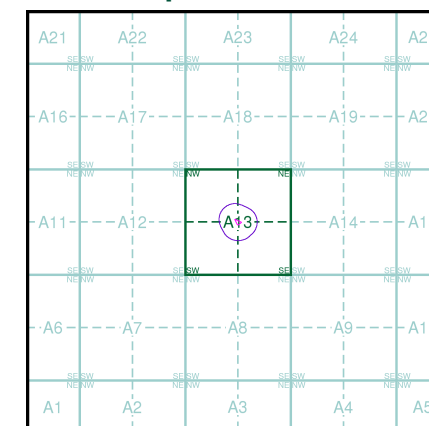
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1965	1964
1:10,560	1:10,560
SS79SW	SS79SE
1964	1964
1:10,560	1:10,560

Historical Map - Slice A



Order Details

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Site Details

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Landmark
INFORMATION GROUP

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Ordnance Survey Plan

Published 1970 - 1974

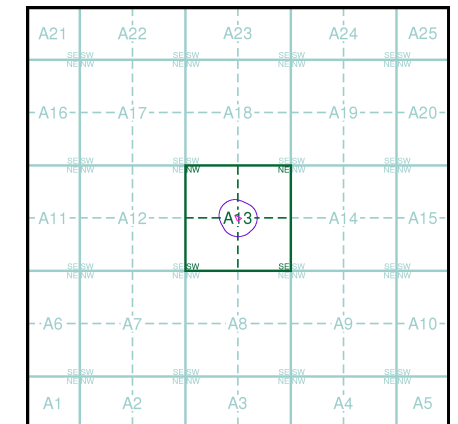
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1970	1973
1:10,560	1:10,000
	SS79SE
	1974
	1:10,560

Historical Map - Slice A



Order Details

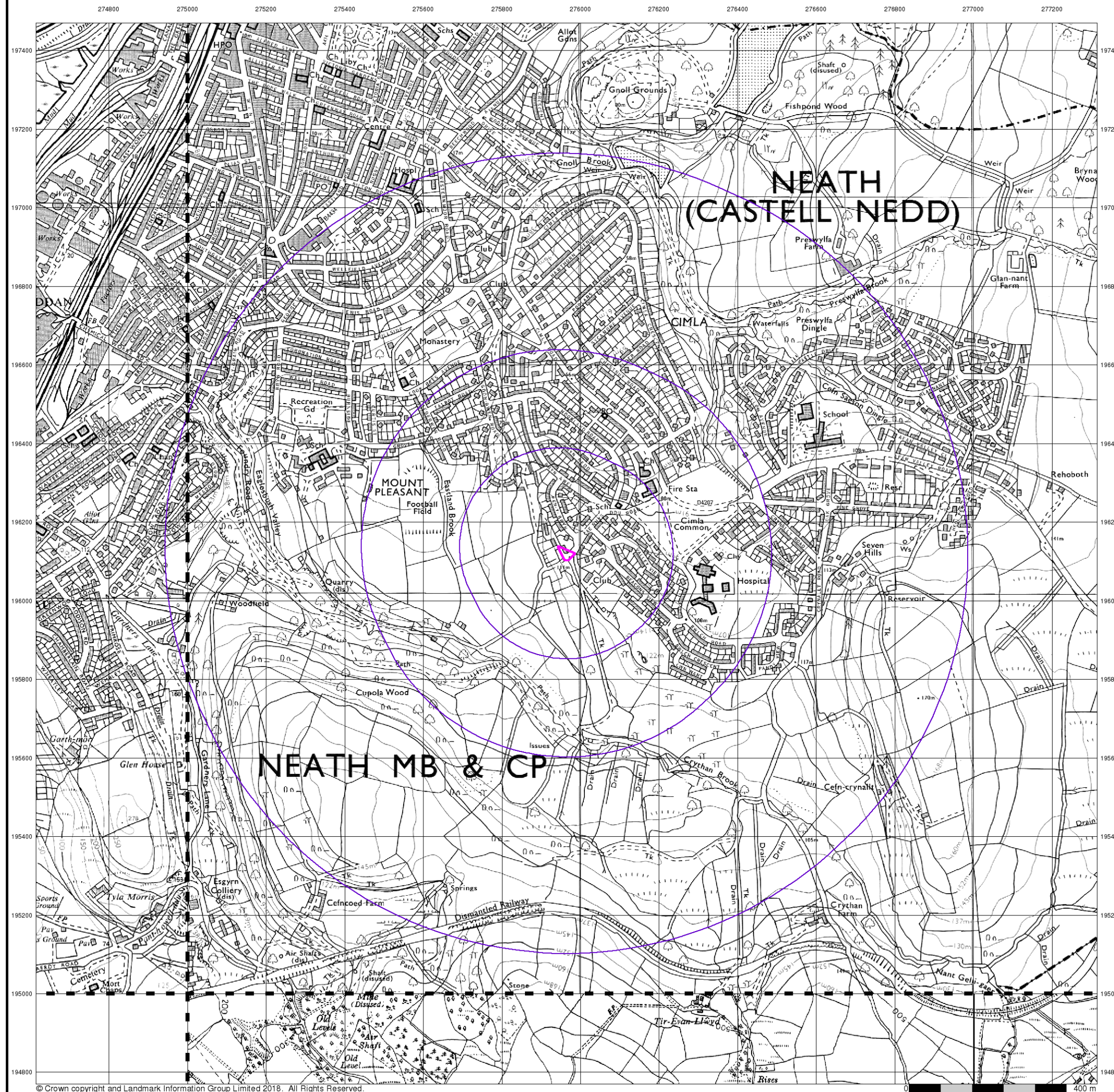
Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB

Landmark
INFORMATION GROUP

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





Ordnance Survey Plan

Published 1980 - 1983

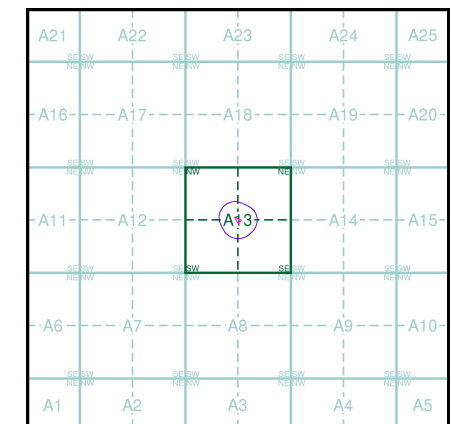
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. 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)

SS79NW	SS79NE
1980	1983
1:10,000	1:10,000
SS79SW	SS79SE
1980	1980
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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Ordnance Survey Plan

Published 1992 - 1996

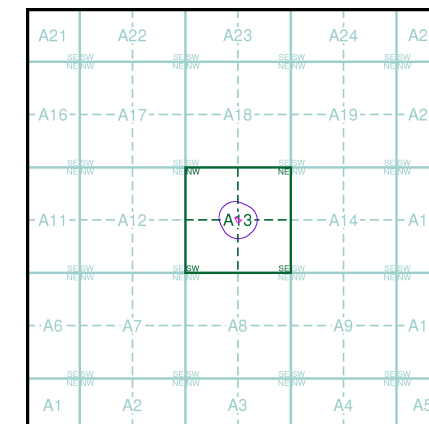
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1992	1992
1:10,000	1:10,000
	SS79SE
	1996
	1:10,000

Historical Map - Slice A



Order Details

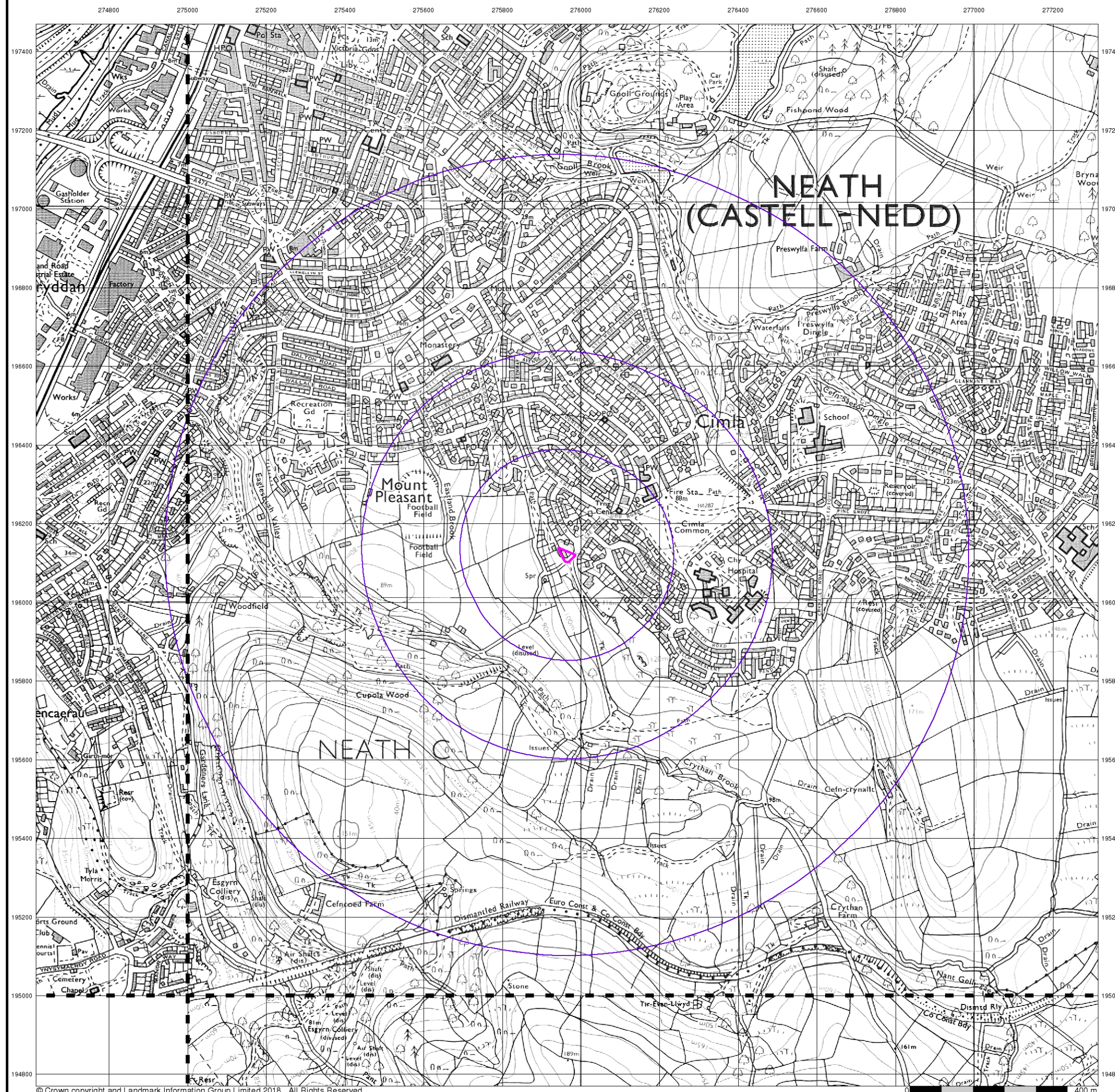
Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Landmark
INFORMATION GROUP

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10k Raster Mapping

Published 1999

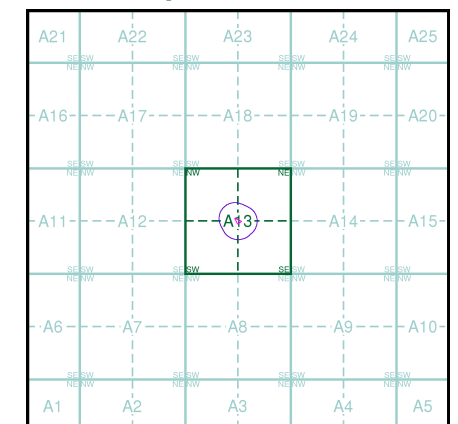
Source map scale - 1:10,000

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)

SS79NW	SS79NE
1999	1999
1:10,000	1:10,000
SS79SW	SS79SE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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10k Raster Mapping

Published 2006

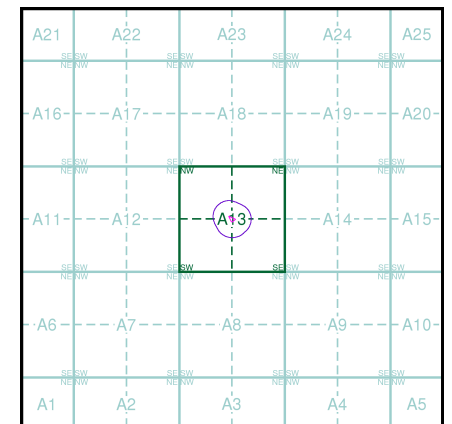
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The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, 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)

SS79NW 2006 1:10,000	SS79NE 2006 1:10,000
SS79SW 2006 1:10,000	SS79SE 2006 1:10,000

Historical Map - Slice A



Order Details

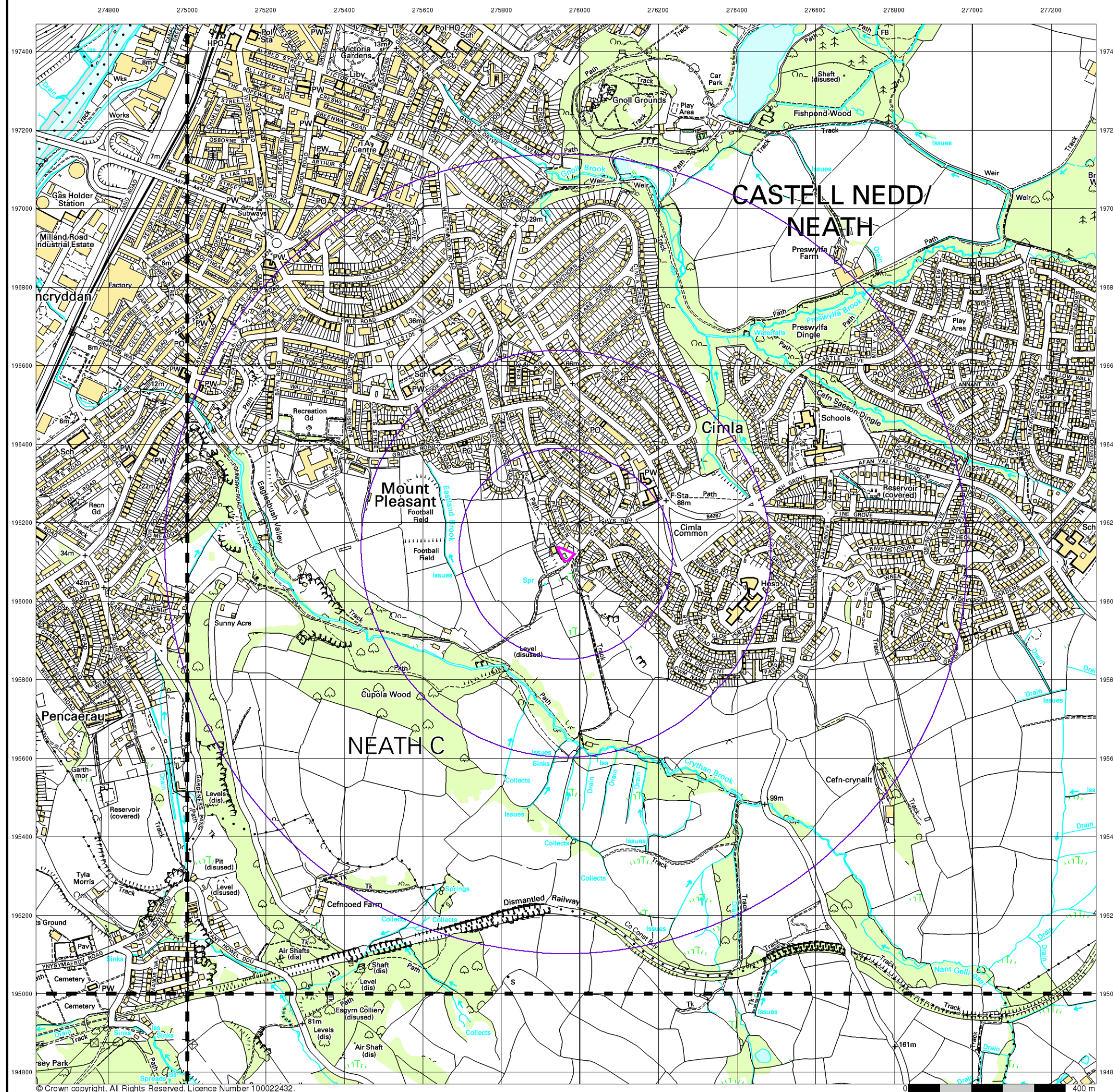
Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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VectorMap Local

Published 2018

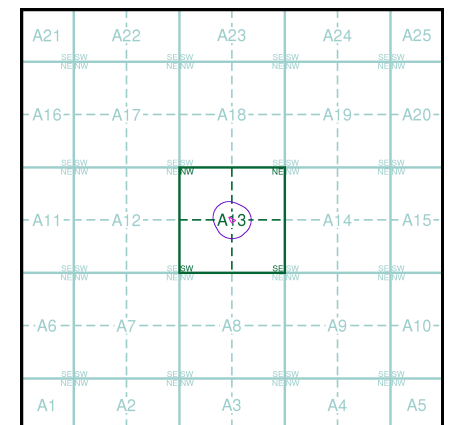
Source map scale - 1:10,000

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)

SS79NW	SS79NE
2018	2018
Variable	Variable
SS79SW	SS79SE
2018	2018
Variable	Variable

Historical Map - Slice A



Order Details

Order Number: 157210046_1_1
Customer Ref: 14582
National Grid Reference: 275960, 196120
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

15, Cae Rhys Ddu Road, NEATH, SA11 1JB



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Annex B
Coal Authority Mining Report



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

15, CAE RHYS DDU ROAD
NEATH
NEATH PORT TALBOT

Date of enquiry: 15 February 2018
Date enquiry received: 15 February 2018
Issue date: 15 February 2018

Our reference: 51001781156001
Your reference: 157199881_2|



CON29M Non-Residential Mining Report

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.

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

15, CAE RHYS DDU ROAD, NEATH, NEATH PORT
TALBOT

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

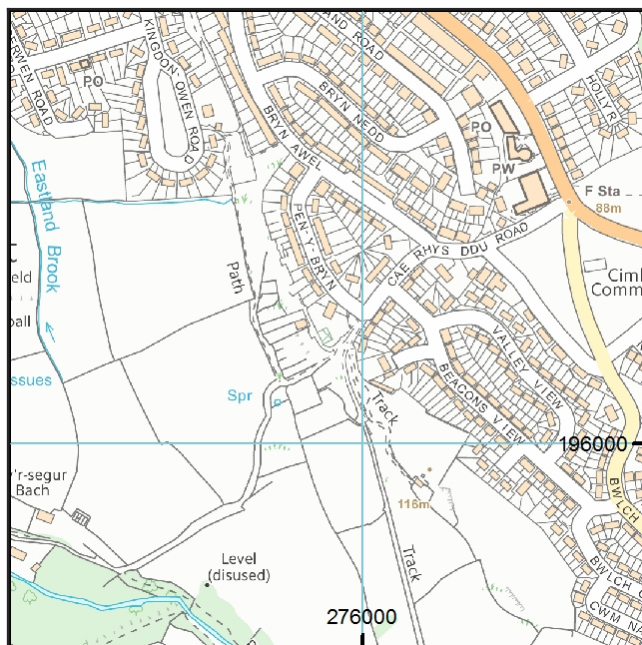
200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



Approximate position of property



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Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	Yes
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	Yes
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 2 seams of coal at 90m to 280m depth, and last worked in 1903.

Any movement in the ground due to coal mining activity should have stopped.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past. The potential presence of coal workings at or close to the surface should be considered prior to any site works or future development activity. Your attention is drawn to the Comments on the Coal Authority information section of the report.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

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

The property is not in an area likely to be affected from any planned future underground coal mining.

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

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

4. Mine entries

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

There may however be mine entries/additional mine entries in the local area which the Coal Authority has no knowledge of.

5. Coal mining geology

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

6. Past opencast coal mining

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

7. Present opencast coal mining

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

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

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.

9. 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 31st 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.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. 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.

12. Withdrawal of support

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.

13. Working facilities order

The property is not in an area where 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.

14. 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.

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

The Coal Authority own the copyright in this report and the information used is protected by our database right.

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.

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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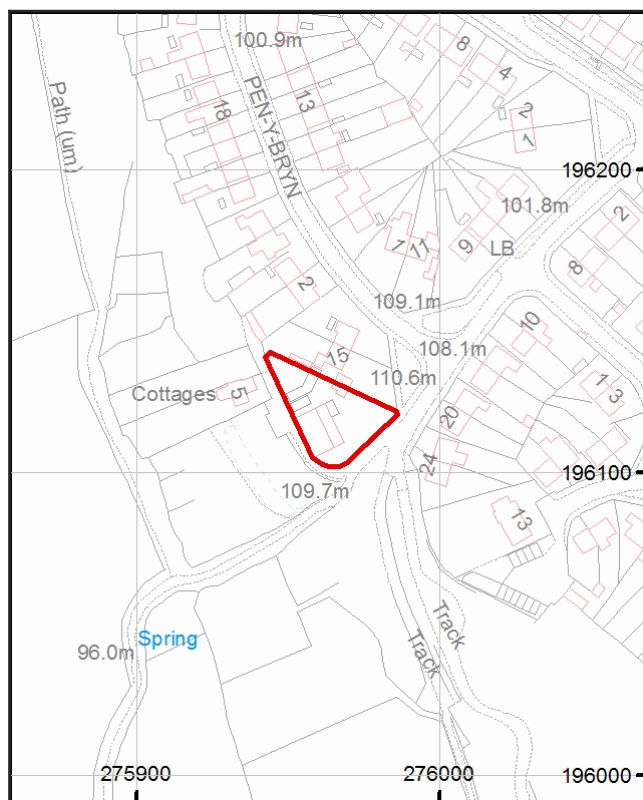
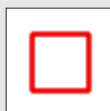
Alternative formats

If you would like this report in an alternative format, please contact our communications team.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



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