Pennant Walters
Rhyswg Wind Farm

Appendix 11A - Preliminary Risk Assessment

November 2025



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1. Introduction

1.1 Background

This report presents a Phase 1 Geo-environmental Desk Study at Rhywsg Farm in Caerphilly, South Wales, where Pennant Walters Ltd. ('the Applicant') is seeking planning permission for the construction and operation of a wind farm and associated infrastructure (the Proposed Development). Details of the Proposed Development are provided in **Table 2.1. Figure 3: Proposed Site Layout** is also included in **Annex A.**

For the purposes of the baseline and assessment defined within this technical appendix, the 'Site' refers to the overall EIA Assessment Area (the "Site") shown in **Figure 1 Site Location,** but specific reference is also defined as:

- 'Main Windfarm Site' - This encompasses the proposed windfarm development site and surrounding parcels at Rhyswg Farm; and
- 'Access track' - This captures the proposed access route between T2 and the southernmost track of the proposed Mynydd Maen project.

1.2 Development Plans

Rhyswg Wind Farm ('the Proposed Development') consists of the following elements:

- Up to three wind turbines;
- Substation and transformer housing;
- Temporary construction compound;
- Temporary site offices;
- Crane pads and cabling; and
- Access track construction.

The principal access to the Site from the local highway network will require an Offline access track between Old Pantside Road (Pantside) and the existing farm track that runs adjacent to Ty Oakley Farm and Pen y Caeau Farm. The Offline access track is yet to be designed but will be located to the south of the existing farm track and rejoin to the south-east of Pen y Caeau Farm.

To the east of Pen y Caeau Farm, access into the Site would be taken via the internal access tracks of the neighbouring proposed wind farm development site at Mynydd Maen, which proposes 13 wind turbines (DNS Planning Reference: DNS/327/6725). From the southern end of the Mynydd Maen site, a new segment of access track will be required to align the Proposed Development with the proposed tracks around Mynydd Maen common and existing farm tracks. This route passes over Registered Common Land1 and appropriate secondary consent will be sought as part of the DNS application

1.3 Assessment Aims and Objectives

The aim of this assessment is to inform the scope of the ground investigation and measures required for the detailed design and construction of the Proposed Development.

To address the identified aim, the key objectives include:

- Developing a preliminary Conceptual Site Model (CSM) to assess the status of any potential contamination and identify any potentially significant contaminant linkages that require further consideration in line with current guidance including the Land Contamination Risk Management (LCRM) guidance published by the Environment Agency[1];
- Evaluate likely contaminated land exposure pathways and their potential significance to identified receptors to support the Proposed Development; and
- Identify potential geohazards, including those associated with coal mining.

1.4 Scope of Works

To meet the aims and objectives identified in Section 1.3, the following scope of works has been undertaken:

- A site walkover completed on 24 October 2025;
- Purchasing and review of a Groundsure Insight report;
- Review of publicly available historical maps and plans to understand former land uses and potential contaminative activities on, and surrounding the Site;
- Review of relevant regulatory databases;
- Obtain information from relevant regulators (Natural Resources Wales, Local Authority);
- Review of relevant publicly available information relating to hydrological features, hydrogeology, neighbouring land use, ecologically sensitive uses and geology in order to establish the environmental setting of the Site;
- Develop a preliminary conceptual site model via the source-pathway-receptor contaminant linkage approach;
- Describe the environmental risks and or opportunities surrounding ground, groundwater and ground gas conditions, which have the potential to arise associated with the future uses of the Site; and,
- Production of a Preliminary Risk Assessment (PRA) report.

1.5 Legislative Context

The assessment was undertaken in the legislative context of:

- Part 2A of The Environmental Protection Act (1990)[2];
- The National Planning Policy Framework (2021)[3];

- The Planning Policy Wales Edition 12 (2024)[4].

The following good practice and statutory guidance was considered, and the assessment was undertaken in general accordance with:

- NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination[5];
- National Resources Wales, Advice for Developers, Land Contamination[6].
- Environment Agency (2020) Land contamination risk management (LCRM): How to assess and manage the risks from land contamination.[1]

1.6 Source of Information

Table 1.1 below outlines the relevant sources of information that were used in the production of this report.

Table 1.1 Sources of Information

Source	Report
WSP	▪ WSP Rhyswg Wind Farm Environmental Impact Assessment: Scoping Report, September 2024. (**Appendix 1B** of the **Chapter 1: Introduction** of the Draft ES). ▪ Site walkover by geotechnical and contaminated land consultants from WSP 24th October 2025 **(AnnexC).** ▪ Wood, Technical Note: Trecelyn Wind Farm – Peat Depth Survey Report, Ref: 807379-WOOD-RP-OG-00001_P01.01, November 2021 **(Annex D).**
Third Party	▪ Envirocheck Insight report: Ref WSP-SWB-9WF-DEP-5QX, 12 September 2025 **(Annex B).** ▪ RSK Geosciences (2023) Renewable Energy Systems Limited, Mynydd Maen Wind Farm, Phase 2 Site Investigation – Coal Mining Risk Assessment. Ref. 315198-R02 (03). (online) Available at: https://www.mynyddmaen-windfarm.co.uk/planning-application/. ▪ RES (2025) Mynydd Maen Wind Farm, Figure 9.3 Peat Depth Plan. (online) Available at: https://mynyddmaen-windfarm.co.uk/media/2644796/figure-93-peat-depth-plan.pdf. Accessed October 2025.
Public Information	▪ British Geological Survey (BGS) GeoIndex. [Online]. Available at: https://www.bgs.ac.uk/map-viewers/geoindex-onshore/. ▪ LandIS. Soilscapes. Available at: https://www.landis.org.uk/soilscapes/; Accessed October 2025. ▪ British Geological Survey (BGS) 1:10,560 geological survey of Great Britain (England and Wales) Soild and Drift, Sheet 249, 1997. ▪ Welsh Government. DataMap Wales. [Online]. Available at: https://datamap.gov.wales/maps/new#/ ▪ Coal Authority Interactive Map viewer, accessed October 2025. Available at: http://mapapps2.bgs.ac.uk/coalauthority/home.html ▪ Multi Agency Geographic Information for the Countryside (MAGIC) interactive map, accessed October 2025, available at: www.magic.gov.uk ▪ Natural Resources Wales (NRW) interactive map viewer, accessed October 2025, available at: https://naturalresources.wales/evidence-and-data/maps/browse-map-of-data-about-the-natural-environment/?lang=en

Source	Report
	▪ Flood Risk Assessment Wales Map, accessed October 2025, available at: ▪ https://naturalresourceswales.gov.uk/flooding/check-your-flood-risk-on-a-map-flood-risk-assessment-wales-map/?lang=en ▪ BGS, GeoIndex, accessed October 2025, available at: http://mapapps2.bgs.ac.uk/geoindex/home.html ▪ BGS, Geology of Britain Viewer, accessed Otober 2025, available at: ▪ http://mapapps.bgs.ac.uk/geologyofbritain/home.html
Notes	The report contains British Geological Survey materials ©NERC 2017 and Environment Agency information ©Environment Agency and database right.

1.7 Understanding Risk

It is important to understand that any risks identified during a preliminary assessment, such as the one presented in this document, are perceived risks based on the information reviewed. A more detailed assessment of the actual risks can only be assessed following further intrusive investigations.

The preliminary assessments presented herein are qualitative based on professional judgements following the review of available data and within the context of the existing/proposed use. Those risk categories presented (very low, low, low to moderate, moderate, high and very high) follow guidance presented in CIRIA Publication C552, Contaminated Land Risk Assessment – A Guide to Good Practice. CIRIA states that the risk levels should be based on an understanding of both the probability (likelihood) of a risk occurring and the magnitude of the potential consequence (severity) of a risk.

1.8 Confidentiality Limitations

This report is addressed to and may be relied upon by the Applicant. The report may not be relied upon or transferred to any other parties without the express written authorisation of WSP. This report should be read in full. No responsibility will be accepted where this report is used, either in its entirety or in part by any other party.

Third party information used in the production of this report has been taken in good faith as being accurate. WSP cannot and will not accept any liability for errors and/or omissions in data provided by others and WSP cannot warrant the work of others.

General limitations of the assessment are included in **Annex G.**

2. Site Background and Setting

2.1 Site Description and Current Use

A site walkover was undertaken on 24 October 2025 by a WSP representative. The key observations from the walkover are presented in **Table 2.1**. Site walkover photos are presented in **Annex C**.

Figure 1: Site Location Plan is presented in **Annex A.**

Table 2.1 Summary of Site Details

Detail	Comment
Name and Address of Site	The Site is located within the Caerphilly County Borough Council (Caerphilly CBC) administrative area. The Site comprises two parcels of land at Rhyswg Farm. The eastern boundary borders Ebbw Forest and Cwmcarn Forest lies to the south. The Site would be accessed from the public highway, an unclassified road and neighbouring site at Mynydd Maen Wind Farm approximately 1km north (a proposed wind farm of up to 13 turbines, reference: DNS/3276725) subject to that development being consented.
National Grid reference	323588, 194773
Site Description and Current Use	The Site comprises a mix of poor semi-improved acid grassland, improved grassland, semi-improved natural grassland and semi-improved acid grassland. Large areas of continuous bracken and broadleaved semi-natural woodland is located in the south, with a coniferous plantation woodland in the southeast. The Site is lined with scattered trees, and divided into a number of fields, separated with wooden fencing. A spring, Nant Gofapi, commences in the eastern portion of the Site and flows west along the southern boundary in the west, terminating to the south where it meets the river Nant Carn. A pond is located in the northwest corner. Two more ponds encroach the Site boundary, centrally in in the southeast. Location of the ponds is shown in **Figure 4: Ground Constraints Feature Plan** in **Annex A.**
Area	56 hectares (Ha).
On-site Activities	The Site is agricultural land, predominantly used for livestock. Sporadic buildings, barns and equipment associated with agricultural practices are present, including small agricultural outhouses in the centre of the of the Site, used for storage of equipment such as IBCs and gas cylinders **(Annex C – Photo 15).** A large barn, used for storage of agricultural materials and equipment is located in the eastern extent of the site. Several small to medium sized barns, a derelict house and agricultural equipment are located adjacent to the southern boundary **(Annex C – Photos 9 – 11).** The central section of the Site is traversed by several restricted byways which also run along part of the northern and part of the southern boundary. The south-

Detail	Comment
	east section of the Site is traversed by a public footpath, which runs adjacent to part of the southern boundary, shown in **Figure 2 Site Constraints – Public Right of Way**, in **Annex A**. The proposed access track between the Site and Mynydd Maen's southernmost tracks runs across restricted byway (ABEC/RBW189/1). Tank noted in the centre of the Site approximately 500m from the nearest watercourse.
Site Setting and Surrounding Land Uses	The outskirts of Abercarn and Newbridge are located approximately 1km and 2km to the west and northwest of the Site, respectively. Crosskeys is around 2km to the south. The settlement of Cwmcarn lies approximately 2km to the east of the Site. The eastern boundary of the Site borders Ebbw Forest whilst Cwmcarn Forest lies to the south. Cwmcarn Forest includes (amongst other things) a visitor centre, tourist accommodation, play area and bike trail. Site is partly within two Sites of Importance for Nature Conservation (SINC) designated by Caerphilly County Council. The Main Windfarm Site partly overlaps the Cwm Gofapi Woods, Cwmcarn SINC (Ref. NH 3.134, SINC 142), an area of mixed woodland on sloping valley-sides, including stands of ancient broadleaved woodland and replanted ancient woodland. The access track runs through the Mynydd Maen, East of Newbridge SINC (Ref. NH3.113 (SINC 111a)), an area of upland common with extensive areas of acid grassland, heath and bracken.
Topography and Ground Cover	The Site is located on the upper slopes (between approximately 330 m and 390 m AOD) of ridges that extend to the west and south-west of the massif formed by Mynydd Llwyd, Mynydd Twyn-glas and Mynydd Maen. To the north of the Site is the deeply incised and heavily forested valleys of Nant Gwyddon, which joins the Ebbw River at Abercarn. Beyond this several tributaries of the Ebbw River have created a complex of ridges and valleys that reduce in elevation westward toward the valley of the Ebbw River. The most southerly of these is the steep-sided Cwm Hafod-fach, the northern end of which is occupied by the Hafod sandstone.
Boundaries	The Site is bounded by a combination of dry-stone wall and wooden fencing, with areas of agricultural land and woodland adjacent.
Drainage & Flooding	Drainage channels noted throughout the site during the walkover.
Embankments & Slopes	The Site is at its maximum elevation in the northwest, and slopes gently south. A valley is located in the south, with a steeper gradient towards the southern boundary.
Trees & Vegetation	Sporadic tree covers across Site, predominantly along field boundaries. No invasive species noted.
Foundations, Retaining Walls & Basements Evident on site	None noted.
Visual Observations of Contamination or	Potential contamination risk on site is predominantly that of current and historical agricultural processes, such as potential hydrocarbon spills from agricultural equipment and herbicides / pesticides. No evidence of mine spoil or quarrying was noted during the walkover.

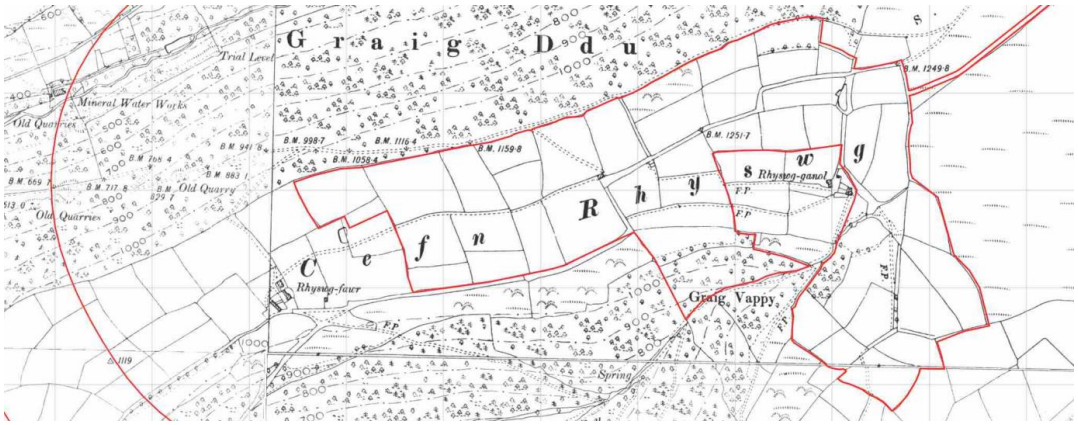
Detail	Comment
Ground Subsidence	An old, rusted overturned car was noted adjacent to the proposed access route that extends from the eastern boundary **(Annex C – Photo 19).**
Asbestos Containing Materials (ACM)	Piled ACM sheeting was noted during the walkover, adjacent to the access track south of the proposed location for T2 **(Annex C – Photo 7).**

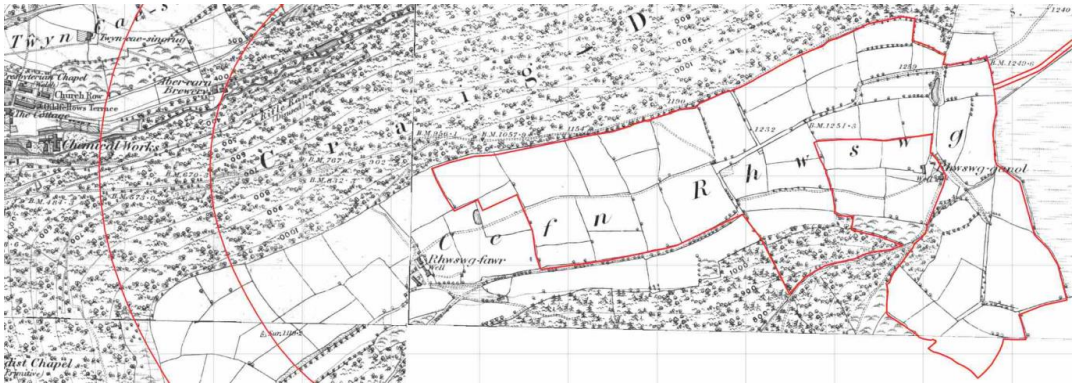
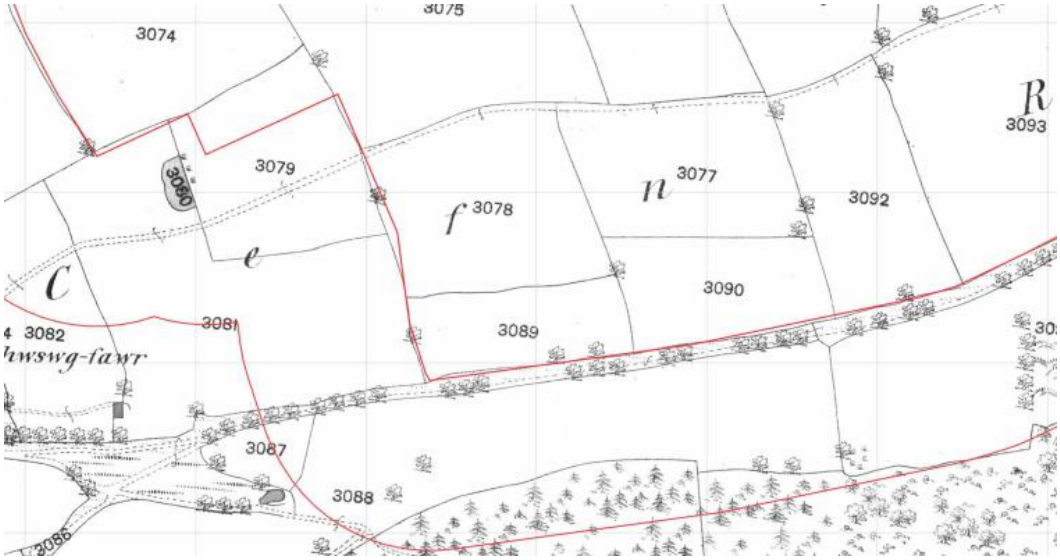
3. Historical Land Use

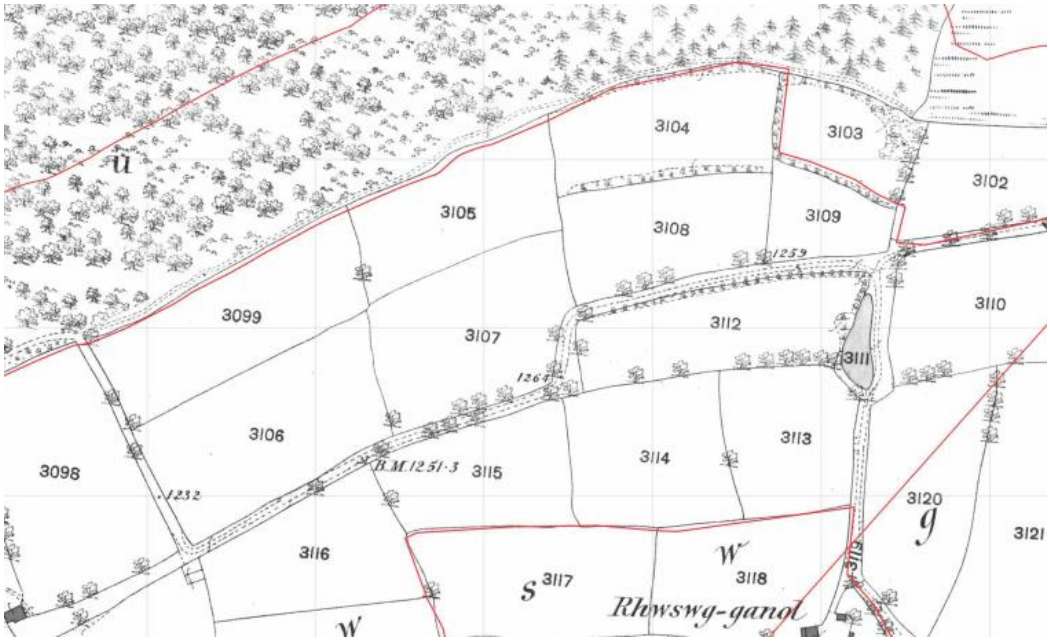
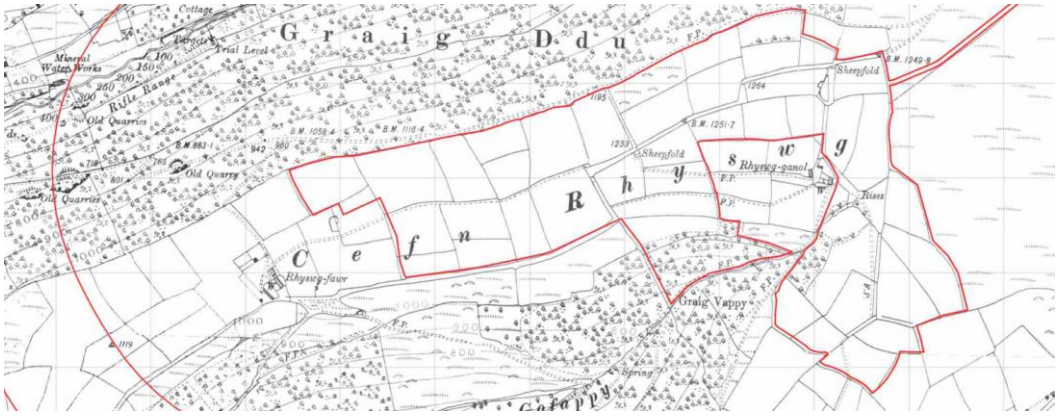
3.1 Site History

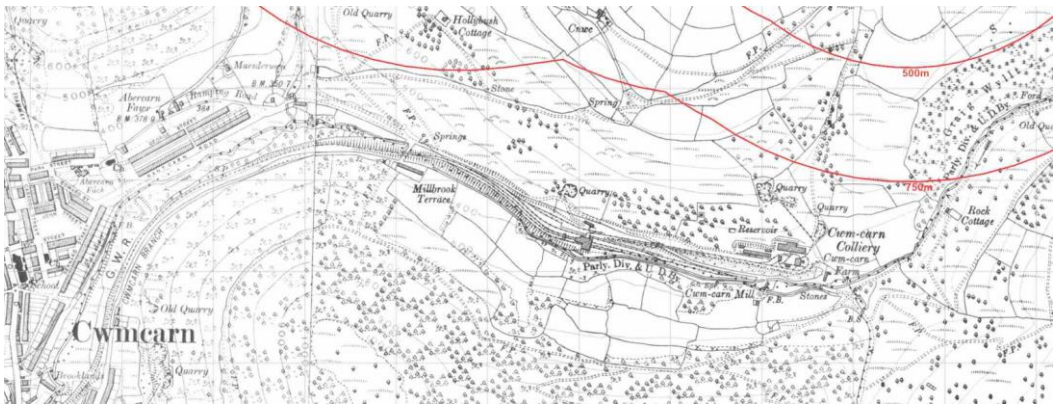
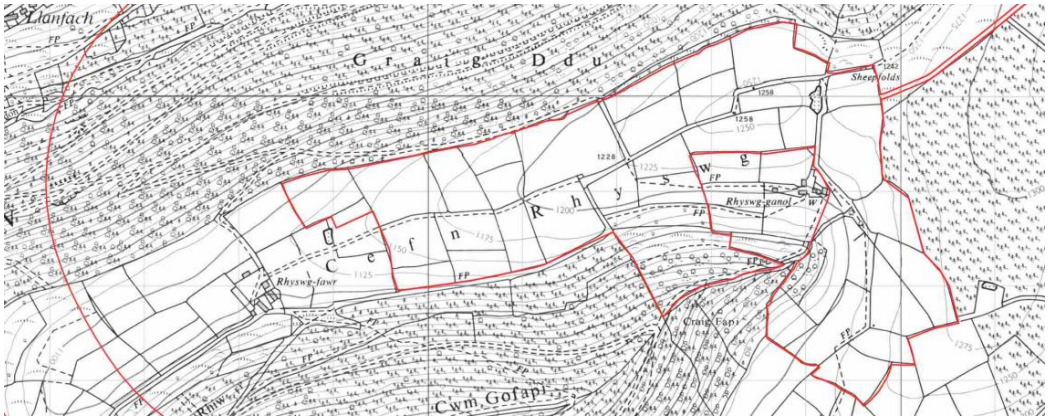
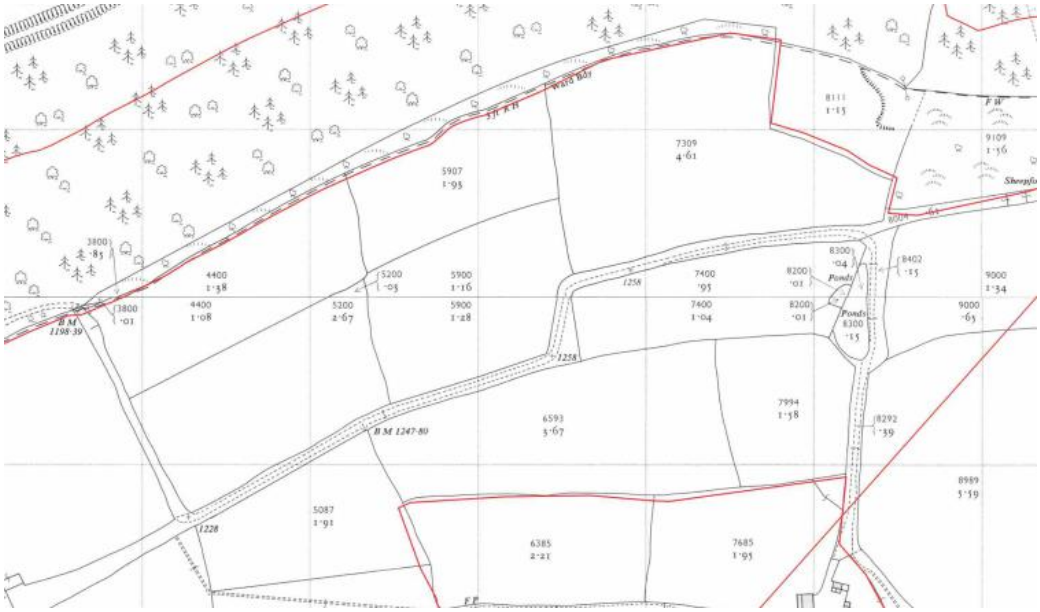
A summary of the historical development of the Site is presented in **Table 3.1** This is based on historical Ordnance Survey (OS) mapping (see historical maps in **Annex B**), supplemented by publicly available aerial imagery on Google Earth.

Table 3.1 Site History

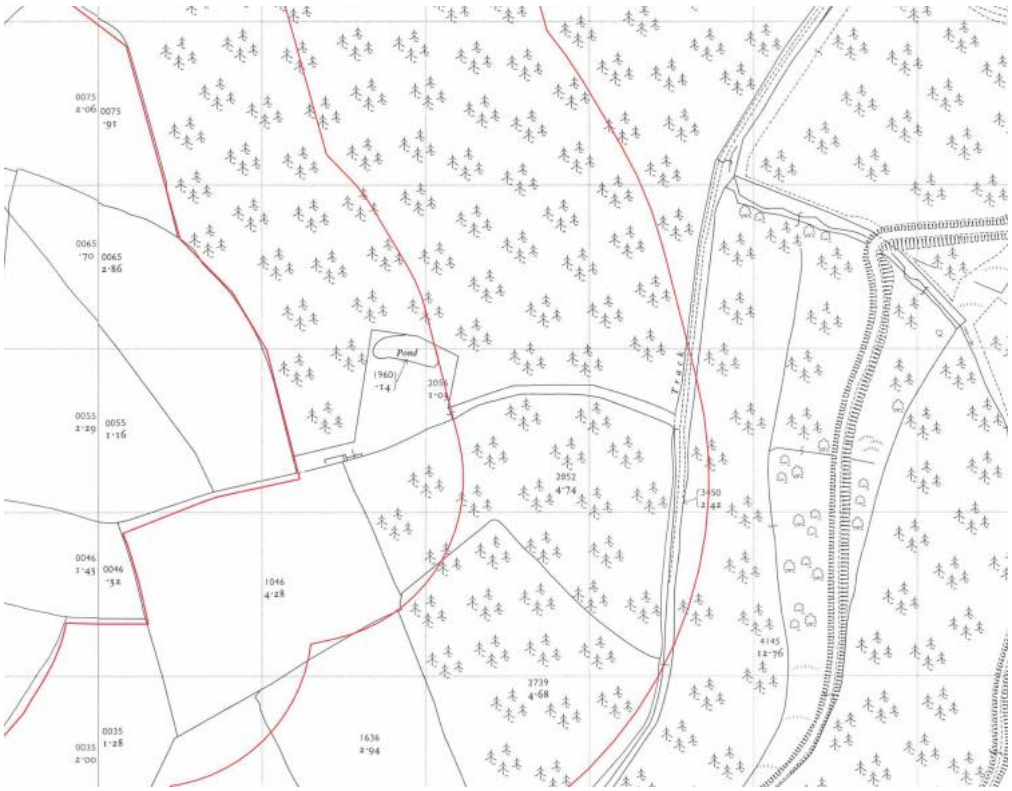
Year	Setting
1879 – 1901	**Onsite:** The Site is set atop Cefn Rhyswg and comprises undeveloped pasture, divided by several hedgerows acting as field boundaries. Areas of marshland are depicted along the northern boundary, and areas of woodland encroach the southern boundary. A pond is located in the northeast corner. The Site is bound by dense woodland to the north and south, with a large area of marshland demarcating the eastern boundary. Marshland is also noted locally along the southern boundary. **Map date: 1899, Entire Site, Scale 1:10,560**  **Offsite:** The Site is located approximately 1.2km northwest of Cwmcarn. “Rhyswg-ganol” is adjacent south. “Rhyswg-fawr” is located to the east, comprising undeveloped pasture and a pond. Each contain a well. A pond is located adjacent southwest. A spring is located approximately 100m north of the proposed access road, and 200m south of the proposed wind farm development site. “Issues” approximately 50m south of the northern most extent of the proposed access road.

Year	Setting
	Several Old Quarries are noted in the local area, particularly from southwest to northwest, the closest of which is 250m west. An Old Coal Shaft, Cwmcarn Colliery and associated railway are also noted approximately 1km south. A mineral water Works is located 250m northwest. A Disused Rifle Range is located 450m northwest. Abercarn Brewers is located 500m northwest. A chemical works is located 750m west. And Old Reservoir is noted 800m southwest. Two Old Coal Levels are found 1.2km southwest. Two Flannel Factories are approximately 1.5km southwest. **Map data: 1875-1881, Entire Site, Scale 1:10,560**  **Map data: 1875, Southwest Corner, Scale 1:2500**  3074 3075 3079 3080 3078 3077 3092 3093 3090 3089 3082 3081 3087 3088 3086 **Map data: 1879, Northeast Corner, Scale 1:2500**

Year	Setting
	
1916 – 1948	**Onsite:** Two sheepfolds are located on Site, one in the centre and one in the northeast corner. **Map date: 1916-1922, Entire Site, Scale 1:10,560**  **Offsite:** Areas of Marshland previously noted along the southern boundary now depicted as woodland. Cwm-carn Colliery is located approximately 900m south, with associated railway track running west from the pit. Several quarries are noted around this area, along with a reservoir. **Map date: 1916-1917, Entire Site, Scale 1:10,560**

Year	Setting
	
1962 – 1993	**Onsite:** Pond in northeast corner shown as Ponds. The Sheepfold within the centre of the Site is no longer present. Sheepfolds noted in northeast corner. **Map date: 1963-1965, Entire Site, Scale 1:10,560**  **Map date: 1962, Northeast Corner, Scale 1:2500** 

Year	Setting
	Offsite: Ponds are noted off the southeast corner and southwest corner. Largescale planting within Ebbw Forest, adjacent south of the proposed access route. Pond located off southeast corner. **Map date: 1962, Access Track, Scale 1:2500**  **Map date: 1962, Southeast Corner, Scale 1:2500**

Year	Setting
	
1993 - 2025	No significant change on site or in the surrounding area.

4. Environmental Setting

4.1 Published Geology

The ground conditions have been derived from a combination of published information, BGS 1:50,000 scale mapping on GeoIndex, the Groundsure report and BGS geological map extract 1:50,000 Solid and Drift Newport Sheet 249, together with information from the site walkover.

Table 4.1 Published Geology

Geology	Evidence
Soils (Pedology)	The LandIS Soilscapes map indicates that the soil type within the proposed wind farm development site predominantly comprises freely draining acid loamy soils over rock (Soilscape 13), with a loamy texture and medium carbon content. At the eastern edge of the Main Windfarm Site there is an area shown as having very acid loamy upland souls with a wet peaty surface (Soilscape 16), a peaty texture and high carbon content. This soil type extents north-eastwards from the Main Windfarm Site below the proposed access track.
Made Ground	The British Geological Survey (BGS) 1:50,000 scale superficial geology mapping shows no artificial ground on the Site. Made ground may be present associated with local disposal of spoil related to historical mining activities; if present, this is anticipated to be minor in occurrence, possibly associated with small scale 'trial' excavations on valley slopes and in the vicinity of any quarries.
Peat	No peat is shown on BGS mapping within the Site; however, soil mapping shows peaty soils are present in the east of the Main Windfarm Site and along the proposed access track. Peat depth surveys have been completed on the Site as described below. A peat depth survey report was produced by Wood Group UK Limited in November 2021 as part of the proposal for Trecelyn Wind Farm, which included Area 4 (Southern Plot), which is currently the proposed Site for Rhyswg Wind Farm, albeit with a slightly altered Site boundary. This is included as **Annex D.** The survey determined that peat was absent across most of the Site, with only 3 of 49 peat probe locations recording 10cm of peat. The survey boundary for the Wood Group UK survey did not include the proposed access track which is presented as part of the Proposed Development. Therefore no data is available for this area of the Site. Peat survey has been undertaken as part of a separate windfarm application by RES[7] on land north of and slightly overlapping the northeast end of the proposed access track. One area of deep peat (indicated to be up to 0.75m thick),

Geology	Evidence
	confirmed by the RES survey, occurs partly within the Site at the northeast end of the proposed access track.
Superficial Deposits	The British Geological Survey (BGS) 1:50,000 scale superficial geology mapping shows no superficial deposits on the Site. This indicates potential for outcropping rock to be present, and soils present on the Site may be thin.
Bedrock	The bedrock geology recorded beneath the Site comprises the Hughes Member, of the Carboniferous Pennant Sandstone Formation (PES), the BGS lexicon for this stratum is described as: “Green-grey, lithic arenites ('Pennant sandstones'), with thin mudstone/siltstone and seatearth interbeds, and mainly thin coals”. The Hughes Member dips approximately 10° north[8]. A fault runs north-south through the eastern portion of the Site, downthrown to the east. The fault was noted during the site walkover to coincide with a topographic low, following the fault’s north-south trend.
Previous Ground Investigations	There are no BGS borehole records available in the Main Windfarm Site or the access track. A BGS borehole completed in 1982 approximately 675m southwest of the wind farm site[9] records made ground to 0.7m depth, directly underlain by bedrock of greywacke (sandstone) to 5.45m, underlain by ‘coaly partings’ of coal and sandstone to 5.5, then greywacke to 5.9m, a clay layer to 6.6m, then mainly greywacke to the base of the borehole at 35.2m. No groundwater observations were recorded. A ground investigation report is available for the proposed Mynydd Maen Wind Farm to the north of the Site[10], this included one trial pit and rotary open hole borehole (T11 RO/TP) approximately 600m north of the Site (at grid coordinates 325741, 196966). This recorded 0.2m of peat, directly underlain by bedrock (weathered Hughes Member) recorded as sandy gravel with sandstone cobbles. The rotary borehole T11-RO confirmed weathered sandstone (Hughes Member) to 1.0m then grey sandstone (Hughes Member) to 20.0m. No groundwater was recorded.
Coal Mining	The coal mining legacy for the Site is considered separately within the Coal Mining Risk Assessment **(Annex E)**[11].

4.2 Hydrogeology

4.2.1 Aquifer Status & Groundwater Abstractions

The Hughes Member bedrock is classified as a Secondary A Aquifer which by definition are “permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers”. Groundwater vulnerability is classed as high due to

the shallow bedrock, absence (<3m thickness) of low permeability deposits above it, and potential for a productive aquifer in well-connected fractures.

Groundwater level details are not included on local BGS logs in the vicinity of the Site. Shallow groundwater may be encountered across the Site. There is also potential for flow in rock fractures.

The Site and the surrounding area within 500m are not within a groundwater Source Protection Zone (SPZ).

There are no licensed groundwater abstractions within 1km of the Site.

4.3 Hydrology

4.3.1 Surface Water Features, Abstractions and Discharges

The Site is located on upland plateau between the Nant Gwyddon and Nant Carn River valleys, approximately 370m to the northwest and 600m southeast, respectively. Tributaries of the Nant Carn are present 320m east of the Main Windfarm Site and 180m southeast of the proposed access track. The Nant Gwyddon and Nant Carn flow generally west to discharge to the Ebbw River which is 1.3km west of the Proposed Development site. A tributary of the Ebbw River, the Nant Gofapi, rises as a spring within the east of the Main Windfarm Site and flows west along the southern Site boundary, then southwest to meet the Nant Carn.

The Nant Carn and tributaries, drain the southeastern section of the Study Area. They flow southward through Cwmcarn Forest and join the Ebbw River at Cwmcarn.

The Nant Gwyddon watercourse drains the northern and western sections of the Study Area and flows west to join the Ebbw River at Abercarn.

The southern area of the Site drains into the Nant Gofapi, the eastern area to the Nant Cam, and the northern, central and western areas drain to the Nant Gwyddon.

Three mapped ponds have been identified within the Site. These are located in the northeast, southeast and central areas of the site and are typically small, isolated ponds.

There are no surface water abstractions on the Site. The closest surface water abstraction is recorded 1km east, operated by C6 Technologies until March 2017, listed as for hydroelectric power generation.

4.3.2 Hydrological Sensitivity

The Site's hydrological setting is considered to be of moderate sensitivity given the presence of multiple surface water features on the Site.

4.4 Flooding

4.4.1 Surface Water Flooding

For context, surface water flooding occurs when the intensity of rainfall is greater than the local drainage and infiltration capacity, causing water to flow overland. Where low-points or barriers to flow are present,

particularly deep areas of flooding may occur. These areas are not limited to river corridors or floodplains.

NRW's Flood Map for Planning for Surface Water and Small Watercourses indicates that the Site is at very low risk of flooding (Flood Zone 1, <0.1% AEP) from surface water.

4.4.2 Groundwater Flooding

Groundwater flooding arises from water issuing to the surface from the underlying aquifer, tending to take place over long periods of sustained heavy rainfall resulting in elevated groundwater levels. Areas most at risk tend to be situated over permeable geology and are in low-lying areas where the local water table is close to or at the ground surface. Caerphilly County Borough Council Local Flood Risk Management Strategy (2013) states that groundwater flooding is not a major issue within the borough area.

The Site is at a topographic high and the underlying geology comprises bands of both higher and lower permeability bedrock layers. Available ground investigation data in the surrounding area (see Section 4.1) has not recorded shallow groundwater. This suggests that there is a low likelihood of encountering groundwater during excavation activities associated with the Proposed Development's construction; and if groundwater is encountered it is not likely to be a significant source of potential flood risk.

4.5 Unexploded Ordnance (UXO)

Based on the online Zetica bomb risk map[12], the Site is at a low risk from unexploded ordnance associated with World War II aerial bombardment.

4.6 Natural Ground Hazards & Radon

The BGS GeoIndex online tool and BGS geological map extract records sandstone landslide deposits approximately 500m to the south of the Site.

The Groundsure Report notes the following ground related hazards within 50m of the Site:

- Collapsible ground – very low hazard.
- Compressible ground – no hazard.
- Ground dissolution – no hazard.
- Landslide – predominantly very low, locally low hazard along the southern boundary.
- Running sand – no hazard.
- Shrinking/swelling clay – no hazard.

Radon is of lower probability (less than 1% of homes are estimated to be at or above the Action Level), which requires no radon protection measures.

4.7 Geohazards

A review of geohazards has identified potential constraints for the Proposed Development. The Site has and is primarily used for agriculture, therefore no historically significant development has been identified. Constraints include possible weathering of shallow bedrock, localised slope instability and the presence of acidic soils either due to the presence of peat (thin surface layer has been confirmed on parts of the Site) or sulphate minerals associated with the bedrock strata.

The Coal Authority identifies the area as being in an area of surface coal resources with some areas of high-risk development across the Site. The coal risk on Site is discussed in the Coal Mining Risk Assessment[11] in **Annex E. Figure 4: Ground Conditions Feature Plan** in **Annex A** shows the location of the coal seals that intersect the proposed access track.

These constraints will require further assessment as part of the detailed design process prior to construction of the Proposed Development, and it is recommended that intrusive ground investigation is undertaken to inform this assessment.

4.8 Mining / Natural Cavities

The Groundsure Report has records of one surface ground workings on site, a pond, and an unspecified ground workings 16m northeast.

There are also several records within 250m of the Site, including unspecified ground works, old quarries, pits, heaps and ponds.

The coal mining legacy for the Site is considered separately within the Coal Mining Risk Assessment **(Annex E)[11].**

5. Regulatory Information and Consultation

5.1 Regulatory Database

The Groundsure Report (**Annex B**) includes information and data collected from several organisations including the National Resources Wales (NRW), the Local Authority, the British Geological Survey, Department for Environment, Food and Rural Affairs (DEFRA) and Health and Safety Executives (HSE).

The database searches revealed no that there are no potentially contaminative land uses in regard to soils, groundwater or surface water currently operating on site, or within 250m of the Site boundary.

5.2 Local Authority Contaminated Land Information

A request for pertinent environmental information relating to land contamination was made to Caerphilly County Borough Council. Their response is awaited at the time of publishing this draft report.

6. Preliminary Conceptual Site Model

6.1 Introduction

The Conceptual Site Model (CSM) is based upon the environmental conditions of the Site as described in the previous sections. The methods used in this assessment followed a risk-based approach with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' contaminant linkages concept introduced in the guidance document (principally the Environment Agency's LCRM Guidance) on the practical implementation of the Environmental Protection Act 1990.

Environmental risk can be defined as the combination of the consequence of a harmful effect and the probability of its occurrence. The existing of a contaminant linkage is primarily dependant on site usage and environmental conditions.

The environmental risk assessment has been carried out identifying and evaluating the significance of the following:

- Potential Sources of Contamination: these include any actual or activities of concern, located either on or in the vicinity of the Site;
- Potential Pathways: these are the routes or mechanisms by which Contaminants of Concern (CoC) may migrate from the source to the receptor; and,
- Potential Receptors: these include current or future land users, activities or persons at the Site that could be harmed by CoC.

6.2 Preliminary Conceptual Site Model Background

The Site has a relatively simple ground model comprising shallow soil overlying bedrock (Hughes Member – sandstone with thin mudstone/siltstone and seatearth interbeds, and mainly thin coals) at shallow depth, which is classed as a Secondary A aquifer.

A Coal Authority Consultants Coal Mining Report (CCMR) was obtained for the Site. Review of this report is detailed in the Coal Mining Risk Assessment (**Annex E)**[11]**.**

Localised unspecified ground works has taken place in close vicinity to the Site, noted 16m north. However, based on review of historical maps and aerial imagery, extensive earthworks do not appear to have happened on site or in the immediate vicinity.

Several surface and below ground watercourses flow across the Site which generally flow to the west. A pond is in the northeast of the Main Windfarm Site, and a second smaller pond is located centrally in the southeast of the Main Windfarm Site. Ponds are also present in the surrounding area immediately west of the Main Windfarm Site, and within Ebbw Forest approximately 68m east of the southeast of the Main Windfarm Site.

No significant potential sources of contamination have been identified on the Site. Limited potential sources include residual waste associated with former mining activity and former and current farm operations. These are all likely to be either small-scale localised sources or diffuse in nature.

One source of potential contamination with potential to affect the land quality on the Site has been identified offsite; an unspecified ground workings 16m northeast.

6.3 Potential Sources of Contamination

A review of the Site's historical development and environmental setting has identified a limited number of potential contaminant sources on the Site, as summarised below in **Table 6.1**. The list of contaminants has been established through a review of Annexe 3 in the Guidance for the Safe Development of Housing on Land Affected by Contamination R&D66: 2008 Volume 2.

The main potential source is diffuse impact associated with agricultural land use. Farm operations are a potential source of ground and groundwater contamination arising from the use of pesticides, agricultural chemicals, and fuels.

Former mine workings are a potential source of toxic and explosive gas. The Coal Authority Report notes no recorded mine gas or mine entries at or within the vicinity of the Site. Whilst the turbines are not associated with significant enclosed spaces, it has been considered for the proposed built environment, particularly the substation building and for construction working in excavations.

Table 6.1 provides a summary of the potential sources of contamination that may be present at the Site, as well as the likely distribution of such sources.

Table 6.1 Potential Sources of Contamination

Potential Source	Potential Contaminants of Concern	Anticipated Distribution
On-Site		
Current and historical agricultural operations	Petroleum hydrocarbons, PAH, BTEX, oils, fertilisers, and pesticides	Entire site, potentially increased likelihood around existing farm buildings. Tank noted in the centre of the Site approximately 500m from the nearest watercourse.
Made Ground	Asbestos, heavy metals, hydrocarbons, ground gases (carbon dioxide, methane)	Localised to current and former farm buildings
Asbestos Sheeting	Asbestos	Localised to areas observed on site (See **Annex A - Figure 4**). Potentially increased likelihood around existing farm buildings.
Mine Gas	Carbon Dioxide, Methane	Coal seams and potentially unrecorded

Potential Source	Potential Contaminants of Concern	Anticipated Distribution
		mine entries across the site
Residual unrecorded extraction waste	Asbestos, heavy metals, inorganics, Poly Aromatic Hydrocarbons (PAH), Total Petroleum Hydrocarbons, ground gases (methane and carbon dioxide)	Unrecorded mining / quarrying areas, if present
Off-site		
Made Ground from backfilled historic unspecified ground workings	Asbestos fibres, metals, PAH, TPH, BTEX, VOCs, fuel oils, ground gases (methane and carbon dioxide).	16m North east.
Old overturned car	Hydrocarbons, PAHs, volatile organic compounds (VOCs)	Adjacent to proposed access track, northwest of Proposed Development Site
Current and historical agricultural operations	Petroleum hydrocarbons, PAH, BTEX, oils, fertilisers, and pesticides	East & west of Main Windfarm Site and adjacent to proposed access track.

6.4 Potential Pathways

In the context of the proposed redevelopment of the Site, the following potential exposure or migration pathways associated with the identified potential sources have been identified:

Pathways to Human Health receptors:

- Dermal contact with soils and groundwater;
- Ingestion of dusts/soil particles;
- Inhalation of dusts and fibres (on-site receptors); and
- Inhalation of hazardous ground gases/vapours (on-site-receptors)

Pathways to Controlled Water receptors:

- Leaching of contaminants through the unsaturated zone and subsequent impact to groundwater within the underlying aquifers; and
- Lateral migration of contaminants within groundwater and subsequent impact of surface water receptors.

Pathways applicable to site infrastructure:

- Direct contact with contaminants (e.g., sulphates and hydrocarbons) in the soil and groundwater with below ground structures (underground potable water pipes and buried concrete); and
- Accumulation of hazardous gases within below ground structures in the future development (explosive risk).

6.5 Potential Receptors

In the context of the future proposed development, the following potential receptors were identified:

Human Health

- Construction workers and future maintenance workers; and
- Current and future site users (agricultural workers, public open space users).

Controlled Waters

- Bedrock (Secondary A Aquifer);
- On site ponds; and
- On site stream - Nant Gofapi.

Services and Building Fabric

- Future below ground services (e.g. potable water supply pipes); and
- Future building structure/concrete.

6.6 Preliminary Conceptual Site Model

The CSM identifies the potential contamination sources, receptors, and the exposure pathways by which they may be linked. A Source-Pathway-Receptor linkage (SPRL) is present if a viable pathway exists between a potential source and an identified receptor.

The CSM includes potential risks which may exist to the Site during the construction and maintenance. However, it is assumed that mitigation procedures during construction will be implemented in accordance with the Outline Construction Environmental Management Plan (CEMP) as provided in **Appendix 4A**.

The preliminary CSM and explanation of the risk characterisation process is presented as **Annex F**. A summary of potential contaminant linkages identified in the preliminary CSM is provided **Table 6.2.**

Table 6.2 Preliminary Conceptual Site Model

SPRL	Potential Source	Pathway	Receptor	Probability	Severity (Consequence)	Preliminary Risk Rating	Comments
ON-SITE							
SPRL1	General Made Ground (localised)	Direct contact with soil and inhalation of dusts from Made Ground.	HH1	Unlikely	Medium	**Low**	Any impact is likely to be localised/diffuse (small scale excavation infilled) and fill material is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Site workers and Wind Farm Workers to use appropriate PPE for ground conditions encountered.
SPRL2	General Made Ground (localised)	Inhalation of airborne fibres derived from asbestos in Made Ground.	HH1	Unlikely	Medium	**Low**	
SPRL3	General Made Ground (localised)	Run off, base flow	CW2	Unlikely	Mild	**Very Low**	Potential for runoff and groundwater baseflow to affect watercourses. Contamination anticipated to be localised/limited although unknown composition of made ground. Attenuation likely.
SPRL4	General Made Ground (localised)	Leaching of contaminants in soil to groundwater.	CW1 CW2	Unlikely	Mild	**Very Low**	
SPRL 5	Asbestos	Direct contact, inhalation of dust/fibres	HH1 HH2	Unlikely	Medium	**Low**	ACM Waste located in areas away from the proposed structures. Limited potential for exposure during routine activities. ACM stockpiled near T2; however, there is limited potential for exposure during routine activities. Construction phase of the Proposed Development will be compliant with the Control of Asbestos Regulations 2012 and restored / reused soils will be confirmed to be suitable for use in accordance with a Materials Management Plan (MMP).

Table 6.2 Preliminary Conceptual Site Model

SPRL	Potential Source	Pathway	Receptor	Probability	Severity (Consequence)	Preliminary Risk Rating	Comments
SPRL6	Asbestos	Direct contact, inhalation of dust/fibres					
SPRL 7	Residual unrecorded extraction (mine) waste (localised)	Direct contact, inhalation, ingestion	HH1 HH2	Unlikely	Medium	**Low**	No mine waste observed during the walkover. If present, its extent will be localised with little likelihood of disturbance by visiting public. Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan. Wind farm workers will wear PPE and will not disturb soils during normal activities.
SPRL8	Residual unrecorded extraction (mine) waste (localised)	Direct contact	SBF1	Unlikely	Medium	**Low**	Degradation of concrete/impact on buried services. Elevated sulphate may be present in mine spoil if present. Concrete will be specified according to ground conditions as described in relevant guidance. no mine waste observed during the walkover.
SPRL9	Residual unrecorded extraction (mine) waste (localised)	Run off, base flow and leaching, migration	CW1 CW2	Low	Mild	**Low**	Potential for runoff and groundwater baseflow to affect watercourses. Coal mine spoil typically exhibits low leachability. Attenuation and dilution likely. Depth to groundwater is unknown, but likely to be at depth
SPRL10	Residual unrecorded extraction (mine) waste (localised)	Direct contact, uptake	CP1 FP1	Unlikely	Mild	**Very Low**	Damage to livestock or crops. No areas of land identified as damaged or unusable for farming, no known issues with crop or livestock health. Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan.
SPRL11	Current and historical farm	Direct contact, inhalation,	HH1	Unlikely	Mild	**Very Low**	Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities.

Table 6.2 Preliminary Conceptual Site Model

SPRL	Potential Source	Pathway	Receptor	Probability	Severity (Consequence)	Preliminary Risk Rating	Comments
	operations, predominantly around buildings	ingestion, vapour inhalation	HH2				Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan. Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and will not disturb soils during normal activities.
SPRL12	Current and historical farm operations, predominantly around buildings	Direct contact	FP1	Unlikely	Medium	**Low**	Agricultural chemicals do not normally adversely affect building structures.
SPRL13	Current and historical farm operations, predominantly around buildings	Run off, base flow and leaching, migration	CW1 CW2	Low	Mild	**Low**	Tank located approximately 500m from the nearest watercourse. Potential for runoff and groundwater baseflow to affect watercourses. Attenuation likely. Depth to groundwater is unknown, but likely to be at depth.
SPRL14	Mine Gas	Inhalation	HH1	Unlikely	Mild	**Very Low**	No enclosed spaces present. No preferential pathways identified in areas of proposed infrastructure.
SPRL15	Mine Gas	Inhalation	HH2	Low likelihood	Medium	**Moderate/low**	Limited confined space in Proposed Development and not routinely occupied. Not located close to identified mine entries (none recorded on site).
SPRL16	Mine Gas	Migration, accumulation	SBF1	Low likelihood	Medium	**Moderate/low**	Limited confined space in Proposed Development. Not located close to identified mine entries (none recorded on site).
OFF-SITE							
SPRL17	General Made Ground – potentially backfilled unspecified	Direct contact with soil and inhalation of dusts from Made Ground.	HH1	Unlikely	Medium	**Low**	Any impact is likely to be localised/diffuse (small scale excavation infilled) and fill material is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Site workers and Wind Farm Workers to use appropriate PPE for ground conditions encountered.

Table 6.2 Preliminary Conceptual Site Model

SPRL	Potential Source	Pathway	Receptor	Probability	Severity (Consequence)	Preliminary Risk Rating	Comments
	ground workings 16m NE.						
SPRL18	General Made Ground – potentially backfilled unspecified ground workings 16m NE.	Inhalation of airborne fibres derived from asbestos in Made Ground.	HH1	Unlikely	Medium	**Low**	
SPRL19	General Made Ground – potentially backfilled unspecified ground workings 16m NE.	Run off, base flow	CW2	Unlikely	Mild	**Very Low**	Potential for runoff and groundwater baseflow to affect watercourses. Contamination anticipated to be localised/limited although unknown composition of made ground. Attenuation likely.
SPRL20	General Made Ground – potentially backfilled unspecified ground workings 16m NE.	Leaching of contaminants in soil to groundwater.	CW1 CW2	Unlikely	Mild	**Very Low**	
SPRL21	Current and historical farm operations, predominantly around buildings	Direct contact, inhalation, ingestion, vapour inhalation	HH1 HH2	Unlikely	Mild	**Very Low**	Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities or by public open space users.

Table 6.2 Preliminary Conceptual Site Model

SPRL	Potential Source	Pathway	Receptor	Probability	Severity (Consequence)	Preliminary Risk Rating	Comments
SPRL22	Old overturned car - Hydrocarbons, PAHs, volatile organic compounds (VOCs)	Direct contact, inhalation, ingestion, vapour inhalation	HH1 HH2	Unlikely	Mild		
SPRL23	Old overturned car - Hydrocarbons, PAHs, volatile organic compounds (VOCs)	Direct Contact	SBF1	Unlikely	Mild	**Very Low**	No signs of spills or leaks noted. Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities. Limited exposure potential for visitors to Site. Site workers to use appropriate PPE for ground conditions encountered. Wind farm workers will wear PPE and will not disturb soils during normal activities.
SPRL24	Old overturned car - Hydrocarbons, PAHs, volatile organic compounds (VOCs)	Run off, base flow and leaching, migration	CW1 CW2	Unlikely	Mild	**Very Low**	Not located in vicinity of Proposed structures/services.
SPRL25	Current and historical farm operations, predominantly around buildings	Direct contact, inhalation, ingestion, vapour inhalation	HH1 HH2	Unlikely	Mild	**Very Low**	Any impact is likely to be highly localised/diffuse and is unlikely to be disturbed during routine Site activities. Restored / reused soils during the construction phase of the Proposed Development will be confirmed to be suitable for use in accordance with a Materials Management Plan. Limited exposure potential for visitors to Site. Wind farm workers will wear PPE and will not disturb soils during normal activities.
SPRL26	Current and historical farm	Direct contact	FP1	Unlikely	Medium	**Low**	Agricultural chemicals do not normally adversely affect building structures.

Table 6.2 Preliminary Conceptual Site Model

SPRL	Potential Source	Pathway	Receptor	Probability	Severity (Consequence)	Preliminary Risk Rating	Comments
	operations, predominantly around buildings						
SPRL27	Current and historical farm operations, predominantly around buildings	Run off, base flow and leaching, migration	CW1 CW2	Low	Mild	**Low**	Potential for runoff and groundwater baseflow to affect watercourses. Attenuation likely. Depth to groundwater is unknown, but likely to be at depth.

HH1 – Construction Workers

HH2 – Future Site Users (Maintenance workers, agricultural workers, public open space users)

HH3 – Adjacent Site Users (public open space users)

CW1 – Hughes Member (Secondary A Aquifer)

CW2 – Surface water receptors (Nant Gofapi, on site ponds)

SBF1 – Services and building fabric

CP1 – Current property

FP1 – Future property

7. Geotechnical Risk Register

A geotechnical review of the Site has been carried out using the information available from this report and the Site walkover. This section highlights the geotechnical risks associated within the Site development. As the project progresses, and as more information is obtained pertaining to geotechnical properties, design and construction sequences relating to the project, this register should be updated. This Risk Register does not account for all project risks and only accounts for conceivable geotechnical risks identified at the date of this report.

Error! Reference source not found. provides a risk register classification and geotechnical risk register for the Site which has been prepared based on the available information. The scoring system used in this register is presented in Error! Reference source not found..

Table 7.1 Geotechnical Risk Register Scoring System

Probability (P)		Impact/Consequence (I)	
Very Likely	5	Very High	5
Probable	4	High	4
Likely	3	Medium	3
Unlikely	2	Low	2
Negligible	1	Very Low	1

Risk PxI=R		Impact/Consequence				
		1	2	3	4	5
Probability	1	1	2	3	4	5
	2	2	4	6	8	10
	3	3	6	9	12	15
	4	4	8	12	16	20
	5	5	10	15	20	25

Table 7.2 Geotechnical Risk Register

Item	Hazard	Cause	Consequence	P	I	R	Design Control Measure	P	I	R
1	Highly compressible ground.	Peat may be present across moorlands.	High magnitude of settlement. Delays to construction/costs associated with maintenance of access roads.	3	4	12	Detailed design to investigate ground conditions along access route and design out risks associated with peat. Initial investigations nearby suggest peat thickness is <0.50m and may be dealt with locally. Detailed design to set out improvement layers/dig and replace is necessary.	1	4	3
2	Ground movement associated with historical coal mining	Historical/legacy coal mining activities	Differential and/or excessive settlement leading to structural failure. Cost and reputational damages. Risk of injury/death.	2	5	10	A Coal Mining Risk Assessment (CMRA) has been completed, concluding that the risk posed by legacy mining activities is low but cannot be totally discounted. Implement all recommendations set out within the CMRA.	1	5	5

3	Aggressive Ground Conditions	Sulphate attack on buried concrete from sulphate-bearing material. Potential for mudstone to be underlying the Site.	Structural damage. Cost of repairs. Long term performance of structures compromised.	2	4	8	Undertake ground investigation works and test soil/rock and groundwater samples. Implement all recommendations of BRE Special Digest 1.	1	4	4
4	Slope stability	Variability in Site levels and requirement to form level platforms at turbine construction Site's. Large earthworks likely required (cut and fill).	Slope failure in cut or fill material. Damage to turbine infrastructure, maintenance.	2	4	8	Complete Ground Investigation and produce revised ground model and determine geotechnical parameters. Design cut and fill slopes in accordance with best practice in both temporary and permanent cases.	1	4	4
5	Site flooding	Ponds/watercourses located on site may flood during periods of heavy rainfall.	Flooding of access/haul road. Washing away of access track/haul road.	3	3	9	Implement suitable drainage design along access/haul road. Culvert crossings required at watercourse crossings.	1	3	3
6	Variable/weak ground/unfavourable conditions	Localised variation in ground conditions due to faulting/historical mining.	Failure of turbine foundations or access road foundation. Injury/death. Reputational damage. Financial impact.	2	5	10	Undertake detailed Ground Investigation at all tower locations and any ancillary infrastructure to determine ground conditions to allow detailed geotechnical design to be completed.	1	5	5
7	Mass movements caused by loading Pre-existing/relict shear surfaces	Additional load/variation in ground levels (fill). Tower T 3 sits atop a fairly deep gulley to the north.	Failure of turbine. Reputational damage. Death/injury.	2	5	10	Detailed design to address risk by Ground Investigation, detailed mapping. Detailed design to confirm suitable foundation approach.	1	5	5
8	Shallow Groundwater	Possibility of shallow or perched groundwater (exhibited by ponds)	Impact on permanent design of turbine	3	3	9	Undertake Ground Investigation to determine groundwater levels. Detailed	1	3	3

			foundations, temporary and permanent earthworks.				design to reflect encountered groundwater levels.			

8. Conclusions & Recommendations

8.1 Conclusions

The Site is primarily used for agriculture, mainly sheep grazing, with some limited potential for future crops. Minor contamination sources have been identified as current and former agricultural activities, active above ground hydrocarbon tank, potentially infilled ground (made ground) around existing buildings and adjacent northeast in old quarry. The sources identified are small-scale and localised or diffuse in nature. The coal mining history of the Site also means that there is potential for mine gas to be present.

The risks to current site users' human health from potential contaminants in soils arising from, agricultural operations are assessed to be very low. Future Site users, including agricultural workers, wind farm workers and open space users, are unlikely to disturb contaminated soil during normal Site usage. Low risks have been assigned to human health risk from potential contaminants associated with an active tank in the centre of the Site. A low risk to current site users is also assigned to mine gas (given the limited presence of enclosed spaces currently present).

Risks to future site users associated with mine gas also been assessed as moderate/low given that the Proposed Development will introduce limited enclosed spaces where gas could accumulate, although these will be used infrequently. The risk level reflects the severity of consequence of a contaminant linkage being realised and can be lowered through further investigation including gas monitoring.

Risks to surface water are assessed to be very low, as surface water receptors are either not located near potential sources, or the source, if present, is likely to be of limited extent and unlikely to result in significant degradation of water quality.

The risks to groundwater from the identified sources are assessed to be very low for onsite sources, and low for the offsite quarry, given the nature of the sources and the likelihood that groundwater in the bedrock aquifer has the potential to be at depth and likely to have been impacted by historical mining activities in the wider area.

Risks to future buildings and infrastructure have been assessed as low to very low given the generally limited nature of the sources and the distance from sources to the proposed buildings and infrastructure.

Risks to future agricultural property (sheep, other livestock, crops) due to the potential for the Proposed Development construction works to encounter residual unrecorded mine wastes are assessed as very low, this is on the basis that mine waste is likely to be limited / localised if present, and reused soils will be subject to materials management planning and assessed to be suitable for use before being used within the Proposed Development.

As previously discussed, the conceptual model does not consider risks to construction /Site maintenance workers on the basis that risks to workers will be dealt with under the Health and Safety at Work Act (1974) and regulations made under the Act. Site-specific contamination data obtained through subsequent assessments of the Site should be included in the health and safety file for the proposed works, to enable any contractors to address as necessary in their risk assessments and method statements.

The geotechnical risk associated with the development of the site is considered Moderate given the current level of understanding of the underlying ground conditions, significant volumes of cut/fill required to form access routes and turbine platforms and the presence of potentially highly compressive soils along the access/haul road. Surface water hazards/flooding are also considered a significant risk. There is a low risk of historical coal mining features impacting the Site. Further Ground Investigation is required to determine the specific engineering properties of the underlying material and groundwater conditions prior to development in order to determine an appropriate foundation type, earthworks strategy as well as any other geotechnical requirements for the Proposed Development.

8.2 Recommendations

The desk-based assessment has identified some potential contamination constraints associated with the proposed future wind farm use of the Site. No ground investigation data is currently available for the Site with the exception of shallow peat survey data.

The potential land contamination constraints can be mitigated through targeted ground investigation to include gas monitoring where buildings / enclosed spaces are to be constructed. The investigation could also be used to confirm the presence/absence of contamination in shallow soils (e.g., by metals and hydrocarbons), in areas where development is proposed, method statements including procedures for encountering unexpected contamination, Environmental Management Plans, and health and safety plans for the works. The findings of these investigations and soil testing should inform the detailed design of the Proposed Development and the design of any required remedial measures. It is recommended that this report and all previous reports be thoroughly consulted and incorporated where required into the package of information for the Site for any ground works.

Regarding the identified potential geohazards, it is recommended that an intrusive ground investigation is undertaken on the Site to mitigate the potential risks and constraints posed by these hazards.

A programme of intrusive investigation works with associated testing and monitoring for gas and groundwater should be undertaken at the proposed turbine and substation locations, and where with mine related features occur beneath access/internal roads.

Anticipated Scope of Ground investigation

The scope of ground investigation proposed is based on current understanding of the Proposed Development and in the absence of a detailed topographical survey which is recommended to be

undertaken prior to any intrusive works. The outline scope presented below is considered reflective of the anticipated engineering challenges of the Proposed Development:

- 3No dynamically sampled/rotary core follow on boreholes to a minimum depth of 30m mbgl at each of the Turbine locations in order to develop a detailed ground model and associated geotechnical design parameters.
- 6No trial pit locations across the recorded locations of coal seam outcrops along the length of the access /haul road in order to positively identify or no the presence of coal seams near surface and provide geotechnical data.
- 10No supplementary trial pits along the length of the access/haul road to identify geological variation/Peat thickness. Including in situ CBR testing.
- 6No trial pits at the location of proposed turbine construction Site to develop ground modelling for any excavation/placement of fill. Should excavation depths >4m be required, boreholes should be deployed in addition to trial pits.
- Geotechnical and environmental testing of recovered samples.
- Groundwater and ground gas monitoring within borehol

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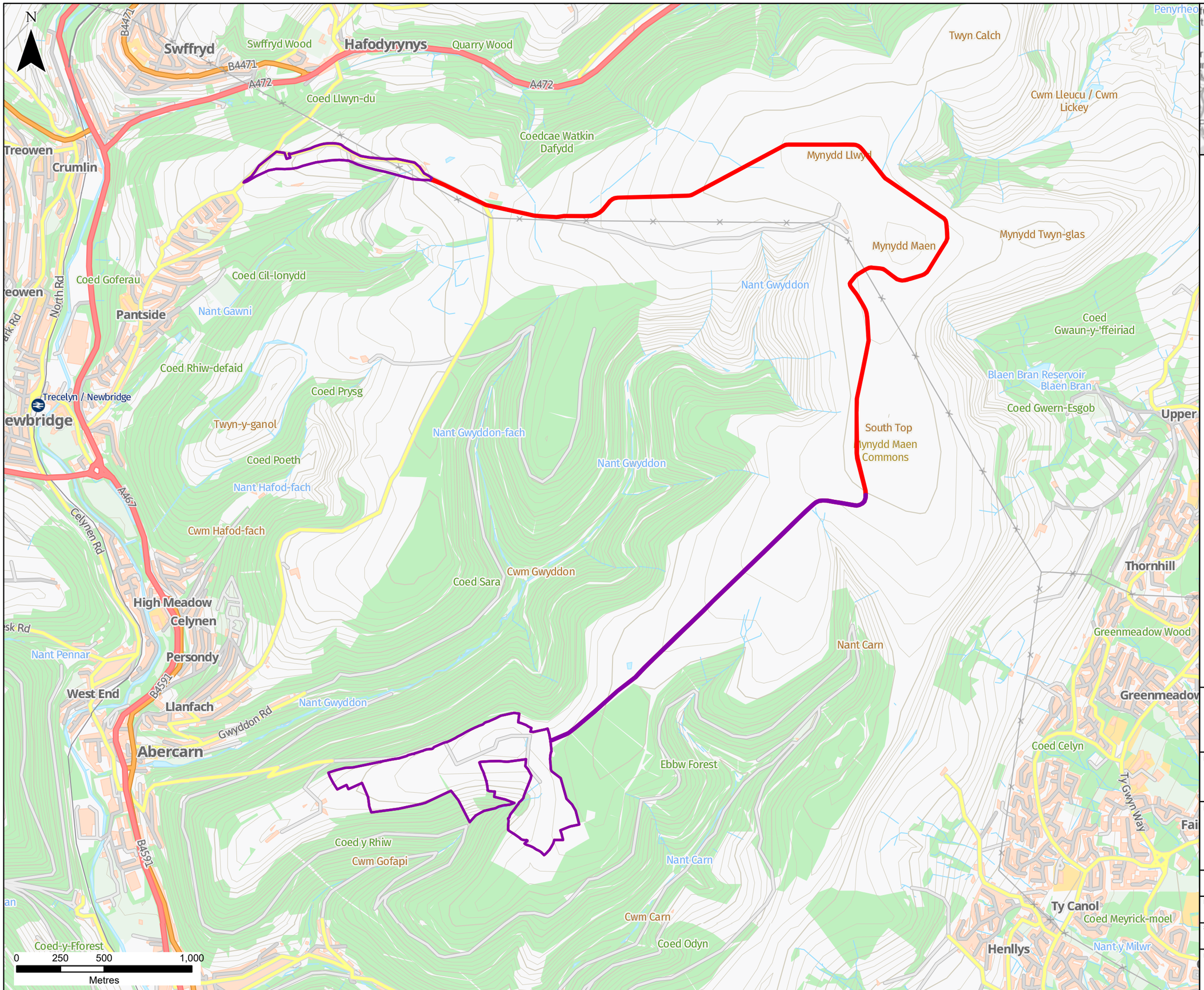
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Annex

Annex A - Figures



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PROJECT TITLE:
RHYSWG WIND FARM PRA

DRAWING TITLE:
FIGURE 1:
SITE LOCATION

CONFIDENTIALITY: PUBLIC

DRAWN:	CHECKED:	APPROVED:	AUTHORISED:
JP	FK	LG	LB

SCALE @ A3 SIZE:	DATE:	REVISION:
1:20,000	13/11/2025	P01.1

DRAWING NUMBER:
UK0041469.0596-WSPE-FG-OG-00001_P01.1

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N

ABEC/RBW328/1
ABEC/FP327/1
ABEC/BR179/1
ABEC/BR179/2
ABEC/RBW171/1
NWBG/RBW171/1
ABEC/FP388/1
ABEC/RBW180/1
ABEC/FP333/1
ABEC/FP335/1
ABEC/FP334/1
ABEC/FP335/1
ABEC/RBW336/1
ABEC/FP181/1
ABEC/RBW345/1
ABEC/FP343/1
ABEC/FP362/1
ABEC/FP209/1
NWBG/RBW374/1
ABEC/FP376/1
ABEC/FP182/1
ABEC/FP184/1
ABEC/RBW176/1
ABEC/RBW174/1
ABEC/FP183/1
ABEC/FP384/1
ABEC/FP378/1
ABEC/FP379/1
ABEC/FP369/1
ABEC/FP185/1
ABEC/FP188/1
T2
ABEC/RBW192/1
ABEC/RBW193/1
ABEC/RBW206/1
ABEC/RBW196/1
ABEC/RBW191/1
ABEC/RBW194/1
ABEC/RBW195/1
ABEC/RBW191/2
T1
ABEC/RBW195/2
T3
ABEC/FP205/1
ABEC/RBW189/1
ABEC/FP190/3
ABEC/FP190/2
ABEC/FP190/1
418/48/1
418/51/1
418/52/1
418/49/1
418/45/1
418/54/1

0 125 250 500
Metres



Legend

- EIA assessment area
- Turbine location
- Footpath
- Bridleway
- Restricted Byway

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ORDNANCE SURVEY AC0000808122.

wsp

PROJECT TITLE:
RHYSWG WIND FARM
PRA

DRAWING TITLE:
FIGURE 2:
SITE CONSTRAINTS -
PUBLIC RIGHTS OF WAY

CONFIDENTIALITY: PUBLIC

DRAWN:	CHECKED:	APPROVED:	AUTHORISED:
JP	FK	LG	LB

SCALE @ A3 SIZE:	DATE:	REVISION:
1:10,000	13/11/2025	P01.1

DRAWING NUMBER:
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N

T1

T2

T3

0 125 250 500

Metres



Legend

- EIA assessment area
- Turbine location
- Crane pad
- Crane pad storage
- Substation
- Compound
- Access track
- Extent of rotor (assumed 136m dia.)
- 180m offset (assumed tip height)
- 85m offset for bat protection (from tower)
- 50m offset for PROWs (from tip)

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ORDNANCE SURVEY AC0000808122.

wsp

PROJECT TITLE:

RHYSWG WIND FARM
PRA

DRAWING TITLE:

FIGURE 3:
PROPOSED SITE LAYOUT

CONFIDENTIALITY

PUBLIC

DRAWN:	CHECKED:	APPROVED:	AUTHORISED:
JP	FK	LG	LB

SCALE @ A3 SIZE:	DATE:	REVISION:
1:10,000	13/11/2025	P01.1

DRAWING NUMBER:

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N

Nant-Hafod-fach

Nant-Gwyddon-fach

Nant-Gwyddon

Nant-Gwyddon

Nant-Gofapi

Nant-Carn

A467

B4591

PW

Approximate area of overturned burnt car (Appendix C-Photo 19)

Unspecified ground workings,16m NE (1981-1989)

Pile of Asbestos sheeting (Appendix C-Photo 7)

Small agricultural outhouses - storage area of IBCs and small gas cylinders. Small stockpile of topsoil also present. (Appendix C - Photo 15)

Large barn and agricultural equipment (excavator and tractor) present.

Several small and medium sized barns and derelict house located outside boundary. Caravans and agricultural equipment (excavator and tractor) present.

T1

T2

T3

P1

P2

P3

P4

P5

P6

P7

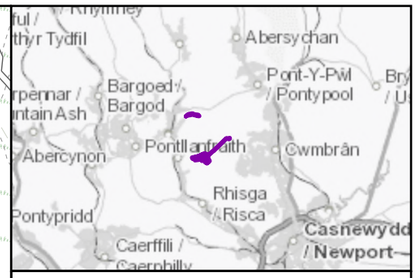
P8

P9

P10

0 155 310 620

Metres



Legend

- EIA assessment area
- Turbine location
- Pond
- Coal outcrop seam
- Potential contaminant source

Note: Made ground may be encountered around existing/former farm structures/ buildings, and around unrecorded mineral workings, but is not shown due to uncertainty over presence and extent.

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wsp

PROJECT TITLE:

RHYSWG WIND FARM
PRA

DRAWING TITLE:

FIGURE 4:
GROUND CONDITIONS FEATURE PLAN

CONFIDENTIALITY: PUBLIC

DRAWN:	CHECKED:	APPROVED:	AUTHORISED:
JP	FK	LG	LG

SCALE @ A3 SIZE:	DATE:	REVISION:
1:12,500	14/11/2025	P01.1

DRAWING NUMBER:

UK0041469.0596-WSPE-FG-OG-00004_P01.1

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Annex B - Envirocheck Report

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Rhyswg

Order Details

Date: 12/09/2025

Your ref: Purchase Order P116682UK001

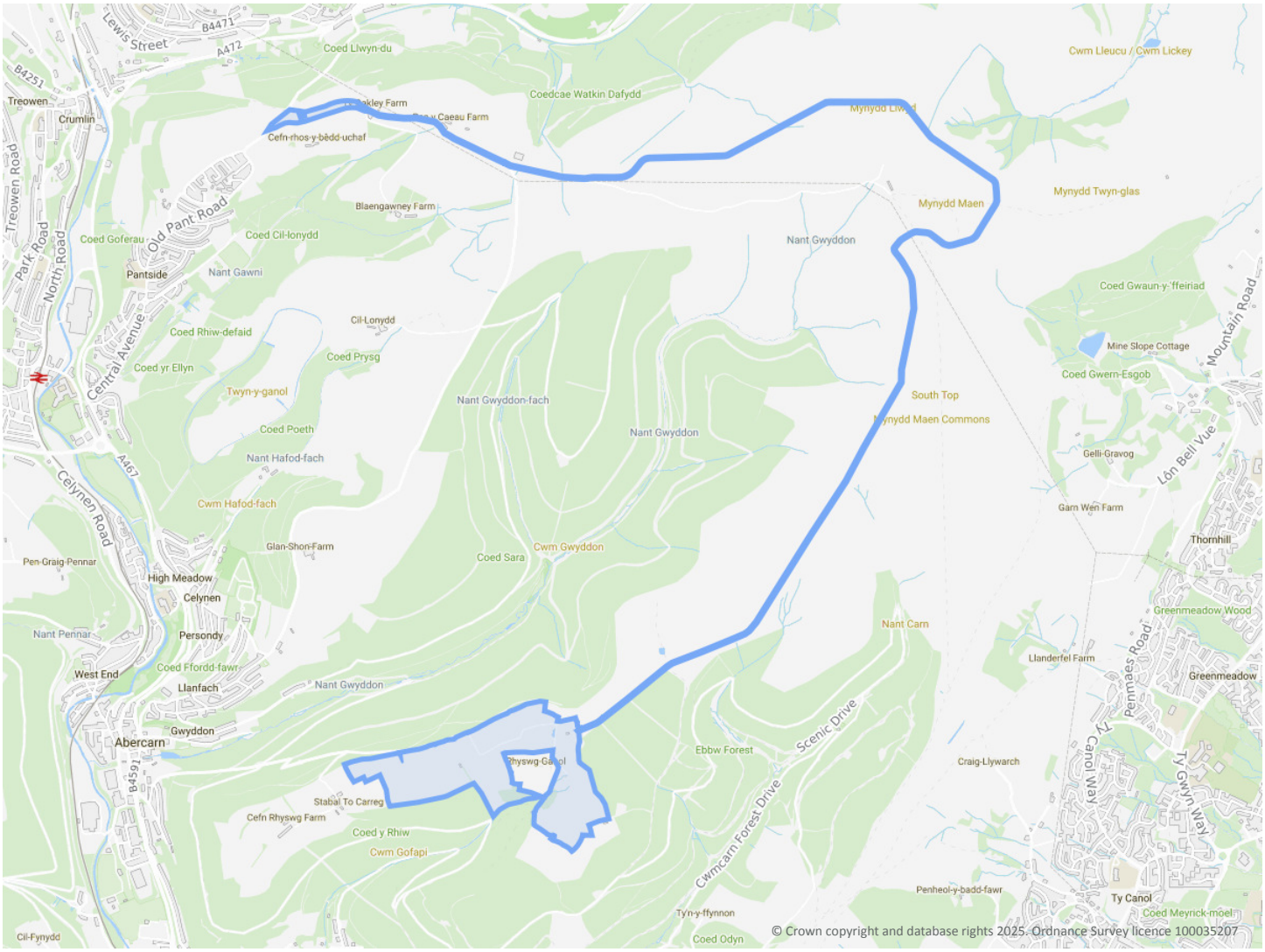
Our Ref: WSP-SWB-9WF-DEP-5QX

Site Details

Location: 323684 195279

Area: 56.6 ha

Authority: Caerffili - Caerphilly County Borough Council ↗, Tor-faen - Torfaen County Borough Council ↗



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	1	2	24	87	-
19 >	1.2 >	Historical tanks >	3	0	0	6	-
19 >	1.3 >	Historical energy features >	0	0	0	2	-
20	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	Historical garages	0	0	0	0	-
20	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
21 >	2.1 >	Historical industrial land uses >	2	3	27	104	-
26 >	2.2 >	Historical tanks >	3	0	0	8	-
27 >	2.3 >	Historical energy features >	0	0	0	3	-
28	2.4	Historical petrol stations	0	0	0	0	-
28	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
30	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
30 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
30	3.5	Historical waste sites	0	0	0	0	-
30	3.6	Licensed waste sites	0	0	0	0	-
31 >	3.7 >	Waste exemptions >	0	6	1	10	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	4.1 >	Recent industrial land uses >	0	7	20	-	-
35	4.2	National Geographic Database (NGD) - Current or recent tanks	0	0	0	-	-
35	4.3	Current or recent petrol stations	0	0	0	0	-
35	4.4	Electricity cables	0	0	0	0	-
36	4.5	Gas pipelines	0	0	0	0	-

36	4.6	Sites determined as Contaminated Land	0	0	0	0	-
36	4.7	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.8	Regulated explosive sites	0	0	0	0	-
36	4.9	Hazardous substance storage/usage	0	0	0	0	-
37	4.10	Historical licensed industrial activities (IPC)	0	0	0	0	-
37	4.11	Licensed industrial activities (Part A(1))	0	0	0	0	-
37	4.12	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
37	4.13	Radioactive Substance Authorisations	0	0	0	0	-
37 >	**4.14 >**	**Licensed Discharges to controlled waters >**	1	0	0	1	-
38	4.15	Pollutant release to surface waters (Red List)	0	0	0	0	-
38	4.16	Pollutant release to public sewer	0	0	0	0	-
38	4.17	List 1 Dangerous Substances	0	0	0	0	-
39	4.18	List 2 Dangerous Substances	0	0	0	0	-
39 >	**4.19 >**	**Pollution Incidents (EA/NRW) >**	0	0	0	3	-
39	4.20	Pollution inventory substances	0	0	0	0	-
40	4.21	Pollution inventory waste transfers	0	0	0	0	-
40	4.22	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
41 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
43 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
45 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	5.5	Groundwater vulnerability- local information	None (within 0m)				
49 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	1	4
51 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	22
56 >	**5.8 >**	**Potable abstractions >**	0	0	0	1	13
59	5.9	Source Protection Zones	0	0	0	0	-
59	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m

60 >	6.1 >	Water Network (OS MasterMap) >	7	8	65	-	-
67 >	6.2 >	Surface water features >	1	6	40	-	-
67 >	6.3 >	WFD Surface water body catchments >	3	-	-	-	-
68 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
68 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
69	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
69	7.2	Historical Flood Events	0	0	0	-	-
69	7.3	Flood Defences	0	0	0	-	-
70	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
70	7.5	Flood Storage Areas	0	0	0	-	-
71	7.6	Flood Zone 2	None (within 50m)				
71	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
72 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
74 >	9.1 >	Groundwater flooding >	Negligible (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
76	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
76	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
76	10.4	Special Protection Areas (SPA)	0	0	0	0	0
76	10.5	National Nature Reserves (NNR)	0	0	0	0	0
77 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
77 >	10.7 >	Designated Ancient Woodland >	9	2	20	47	226
88	10.8	Biosphere Reserves	0	0	0	0	0
88	10.9	Forest Parks	0	0	0	0	0
89	10.10	Marine Conservation Zones	0	0	0	0	0
89	10.11	Green Belt	0	0	0	0	0

89	10.12	Proposed Ramsar sites	0	0	0	0	0
89	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
89	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
90	10.15	Nitrate Sensitive Areas	0	0	0	0	0
90	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
91	10.17	SSSI Impact Risk Zones	0	-	-	-	-
91	10.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
92	11.1	World Heritage Sites	0	0	0	-	-
93	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
93	11.3	National Parks	0	0	0	-	-
93 >	**11.4** >	**Listed Buildings** >	0	0	2	-	-
94	11.5	Conservation Areas	0	0	0	-	-
94	11.6	Scheduled Ancient Monuments	0	0	0	-	-
94	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations** >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	**12.1** >	**Agricultural Land Classification** >	Grade 5 (within 250m)				
97 >	**12.2** >	**Open Access Land** >	2	2	3	-	-
97	12.3	Tree Felling Licences	0	0	0	-	-
97	12.4	Environmental Stewardship Schemes	0	0	0	-	-
98	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
99	13.1	Priority Habitat Inventory	0	0	0	-	-
99	13.2	Habitat Networks	0	0	0	-	-
99	13.3	Open Mosaic Habitat	0	0	0	-	-
99	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	**Geology 1:10,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
100 >	**14.1** >	**10k Availability** >	Identified (within 500m)				
101	14.2	Artificial and made ground (10k)	0	0	0	0	-

102 >	14.3 >	Superficial geology (10k) >	0	0	0	5	-
103 >	14.4 >	Landslip (10k) >	0	0	1	0	-
104 >	14.5 >	Bedrock geology (10k) >	6	0	3	17	-
106 >	14.6 >	Bedrock faults and other linear features (10k) >	3	0	0	1	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
107 >	15.1 >	50k Availability >	Identified (within 500m)				
108	15.2	Artificial and made ground (50k)	0	0	0	0	-
108	15.3	Artificial ground permeability (50k)	0	0	-	-	-
109 >	15.4 >	Superficial geology (50k) >	0	0	0	2	-
110	15.5	Superficial permeability (50k)	None (within 50m)				
110 >	15.6 >	Landslip (50k) >	0	0	1	0	-
110	15.7	Landslip permeability (50k)	None (within 50m)				
111 >	15.8 >	Bedrock geology (50k) >	3	0	1	2	-
112 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
112 >	15.10 >	Bedrock faults and other linear features (50k) >	2	0	0	4	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
113 >	16.1 >	BGS Boreholes >	1	3	5	-	-
Page	Section	**Natural ground subsidence >**					
115 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
116 >	17.2 >	Running sands >	Negligible (within 50m)				
117 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
118 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
119 >	17.5 >	Landslides >	Low (within 50m)				
121 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
123 >	18.1 >	BritPits >	0	0	5	6	-
126 >	18.2 >	Surface ground workings >	11	6	35	-	-
128 >	18.3 >	Underground workings >	0	0	0	15	40
131	18.4	Underground mining extents	0	0	0	0	-

131 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-
131	18.6	Non-coal mining	0	0	0	0	0
131	18.7	JPB mining areas	None (within 0m)				
132	18.8	The Coal Authority non-coal mining	0	0	0	0	-
132	18.9	Researched mining	0	0	0	0	-
132	18.10	Mining record office plans	0	0	0	0	-
132	18.11	BGS mine plans	0	0	0	0	-
133 >	18.12 >	Coal mining >	Identified (within 0m)				
133	18.13	Brine areas	None (within 0m)				
133	18.14	Gypsum areas	None (within 0m)				
133	18.15	Tin mining	None (within 0m)				
133	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
134	19.1	Natural cavities	0	0	0	0	-
134	19.2	Mining cavities	0	0	0	0	0
134	19.3	Reported recent incidents	0	0	0	0	-
134	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
136 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
138 >	21.1 >	BGS Estimated Background Soil Chemistry >	41	3	-	-	-
140	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
141	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
142	22.1	Underground railways (London)	0	0	0	-	-
142	22.2	Underground railways (Non-London)	0	0	0	-	-
142	22.3	Railway tunnels	0	0	0	-	-
142	22.4	Historical railway and tunnel features	0	0	0	-	-
142	22.5	Royal Mail tunnels	0	0	0	-	-

143	22.6	Historical railways	0	0	0	-	-
143	22.7	Railways	0	0	0	-	-
143	22.8	Crossrail 2	0	0	0	0	-
143	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 20/05/2023

Site Area: 56.6ha

Recent site history - 2020 aerial photograph



Capture Date: 14/04/2020

Site Area: 56.6ha

Recent site history - 2014 aerial photograph



Capture Date: 23/07/2014

Site Area: 56.6ha

Recent site history - 2009 aerial photograph



Capture Date: 12/10/2009

Site Area: 56.6ha

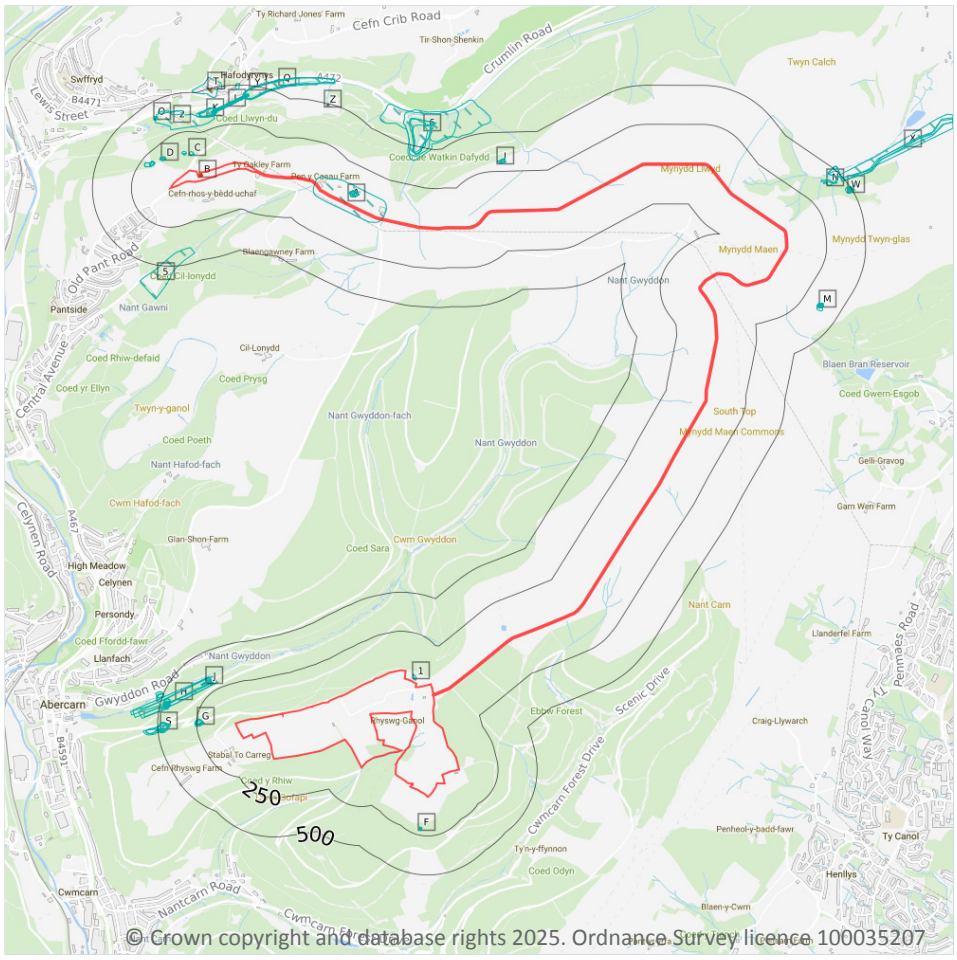
Recent site history - 2000 aerial photograph



Capture Date: 18/06/2000

Site Area: 56.6ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	114

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Disused Quarry**	**1981 - 1989**	**1255333**

ID	Location	Land use	Dates present	Group ID
1	16m NE	Unspecified Ground Workings	1981 - 1989	1233814
A	48m NE	Unspecified Old Quarry	1938	1258113
A	51m NE	Unspecified Old Quarry	1949	1282404
A	52m NE	Unspecified Old Quarry	1922	1288426
A	62m NE	Refuse Heap	1949	1179572
A	67m NE	Unspecified Old Quarry	1899	1257034
C	96m N	Unspecified Heap	1965	1200751
C	100m N	Unspecified Pit	1879	1191832
C	104m N	Unspecified Pit	1879	1191831
C	106m N	Unspecified Heap	1965	1200750
D	150m NW	Unspecified Quarry	1879	1198708
D	154m NW	Unspecified Old Quarry	1922	1271499
D	155m NW	Unspecified Old Quarry	1938 - 1948	1220718
D	156m NW	Unspecified Old Quarry	1899	1213131
E	172m NW	Unspecified Quarry	1922	1240236
E	174m NW	Unspecified Quarry	1965	1283150
E	174m NW	Unspecified Disused Quarry	1981 - 1989	1292924
E	176m NW	Unspecified Quarry	1938	1258717
E	177m NW	Unspecified Quarry	1948	1274014
F	198m S	Unspecified Quarry	1938	1251547
G	201m W	Unspecified Old Quarry	1922	1218125
F	204m S	Unspecified Quarry	1948	1252483
F	205m S	Unspecified Quarry	1922	1268187
G	209m W	Unspecified Old Quarry	1938 - 1948	1292163
G	213m W	Unspecified Ground Workings	1879	1184166
G	215m W	Unspecified Old Quarry	1899	1220059
2	276m N	Unspecified Disused Tip	1981 - 1989	1223003
H	288m NW	Rifle Range	1922	1291130

ID	Location	Land use	Dates present	Group ID
H	291m NW	Disused Rifle Range	1879	1186176
I	301m N	Unspecified Old Quarry	1938	1262329
H	301m NW	Rifle Range	1938	1238633
I	303m N	Unspecified Old Quarry	1949	1228284
I	303m N	Unspecified Old Quarry	1899	1236665
H	303m NW	Rifle Range	1948	1267340
I	304m N	Unspecified Old Quarry	1922	1285510
J	304m NW	Trial Level	1938	1283430
I	307m N	Unspecified Pit	1965 - 1981	1230379
J	309m NW	Trial Level	1899	1260421
J	310m NW	Trial Level	1922	1253643
J	322m NW	Trial Level	1948	1253864
K	324m N	Cuttings	1922	1277284
K	325m N	Cuttings	1879 - 1899	1231030
K	329m N	Cuttings	1948	1225267
K	331m N	Cuttings	1938	1242850
K	333m N	Cuttings	1965 - 1989	1222398
L	338m N	Tunnel	1922	1259037
L	340m N	Tunnel	1879 - 1881	1224802
L	342m N	Tunnel	1899	1214529
L	344m N	Tunnel	1938 - 1949	1264681
L	349m N	Tunnel	1965 - 1989	1276435
M	352m SE	Unspecified Quarry	1881	1198356
M	352m SE	Unspecified Old Quarry	1899	1220615
M	352m SE	Unspecified Old Quarry	1948	1247847
M	353m SE	Unspecified Ground Workings	1965	1183163
M	355m SE	Unspecified Old Quarry	1922	1267663
M	355m SE	Unspecified Old Quarry	1922	1229955

ID	Location	Land use	Dates present	Group ID
3	365m N	Unspecified Heap	1965	1200752
N	386m NE	Unspecified Ground Workings	1949	1220683
N	387m NE	Unspecified Ground Workings	1983	1265778
O	388m NW	Railway Station	1938	1233443
O	390m NW	Railway Station	1922	1294117
O	396m NW	Railway Station	1948	1270496
4	400m N	Cuttings	1879	1178548
5	400m S	Refuse Heap	1981 - 1989	1242862
6	406m N	Disused Workings	1989	1194689
P	408m N	Tunnel	1899	1291847
P	409m N	Tunnel	1938	1291922
Q	409m N	Cuttings	1881 - 1899	1218220
Q	411m N	Cuttings	1938 - 1965	1269792
R	415m N	Cuttings	1981	1254939
R	415m N	Cuttings	1989	1280845
Q	415m N	Cuttings	1922	1271051
S	418m W	Unspecified Old Quarries	1938	1230068
S	421m W	Unspecified Old Quarries	1948	1213078
S	422m W	Unspecified Old Quarries	1922	1282193
S	423m W	Unspecified Disused Quarry	1970	1196633
S	432m W	Unspecified Ground Workings	1879	1184165
H	434m W	Unspecified Pit	1970	1192434
7	435m N	Colliery	1949	1215225
T	435m N	Unspecified Depot	1981 - 1989	1259445
S	438m W	Unspecified Old Quarries	1899	1231196
H	438m W	Unspecified Old Quarries	1922	1277613
H	438m W	Unspecified Quarry	1879	1198770
H	440m W	Unspecified Old Quarries	1899	1238568

ID	Location	Land use	Dates present	Group ID
H	441m W	Unspecified Old Quarries	1948	1268649
H	442m W	Unspecified Old Quarries	1948	1241087
H	442m W	Unspecified Old Quarries	1938	1224750
N	442m NE	Unspecified Pit	1949	1191020
H	442m W	Unspecified Old Quarries	1899	1227160
H	443m W	Unspecified Old Quarries	1922	1250159
U	445m N	Disused Colliery	1981	1189095
U	445m N	Unspecified Disused Tip	1981	1209241
U	448m N	Unspecified Ground Workings	1965	1183281
V	451m NE	Unspecified Pit	1949	1191019
V	452m NE	Unspecified Ground Workings	1983	1213767
V	452m NE	Unspecified Ground Workings	1965	1270637
U	460m N	Refuse Heaps	1949	1243542
W	462m NE	Unspecified Ground Workings	1949	1285639
8	467m N	Unspecified Heap	1938	1200748
W	474m NE	Unspecified Ground Workings	1938	1288506
X	481m NE	Rifle Range	1899	1239484
X	481m NE	Rifle Range	1949	1280891
W	481m NE	Unspecified Ground Workings	1922	1233798
W	484m NE	Unspecified Pit	1899	1218479
Z	484m N	Unspecified Tank	1938	1268830
Z	484m N	Unspecified Tank	1949	1276437
W	486m NE	Unspecified Pit	1965	1246082
W	486m NE	Unspecified Pit	1983	1279604
AA	490m W	Mineral Water Works	1899	1271155
AA	491m W	Brewery	1879	1179122
Z	491m N	Unspecified Tank	1922	1203864
AA	492m W	Mineral Water Works	1922 - 1938	1243719

ID	Location	Land use	Dates present	Group ID
X	497m NE	Rifle Range	1922	1241217

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	9

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
B	**On site**	**Covered Tank**	**1993**	**186663**
B	**On site**	**Covered Tank**	**1989**	**190991**
B	**On site**	**Covered Tank**	**1976**	**196908**
T	478m N	Tanks	1989 - 1993	192060
Z	487m N	Unspecified Tank	1920	179646
Z	492m N	Unspecified Tank	1989	179645
Z	493m N	Unspecified Tank	1962 - 1976	197184
Z	494m N	Unspecified Tank	1993	202525
Z	494m N	Unspecified Tank	-	176256

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	2

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14 >**

ID	Location	Land use	Dates present	Group ID
Y	482m N	Electricity Substation	1989 - 1993	122987
Y	482m N	Electricity Substation	1976	119885

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

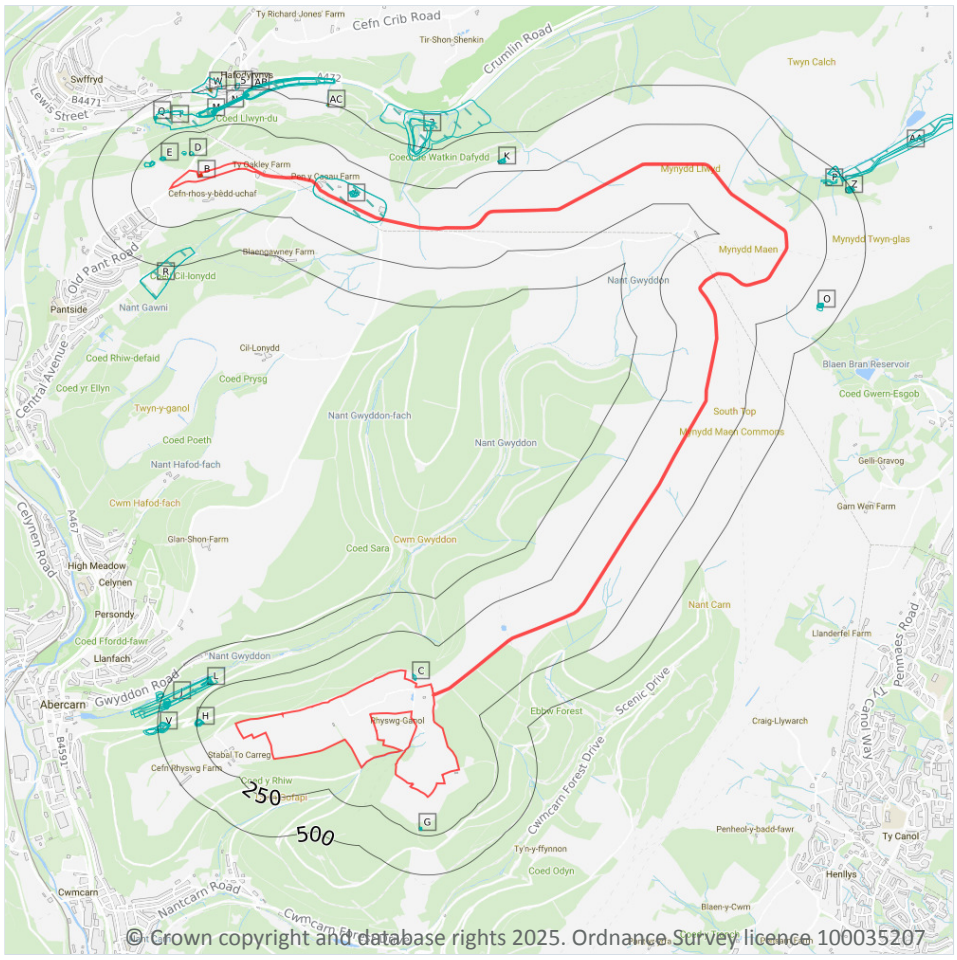
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

2.1 Historical industrial land uses

Records within 500m	136

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Disused Quarry**	**1981**	**1255333**
A	**On site**	**Unspecified Disused Quarry**	**1989**	**1255333**
C	16m NE	Unspecified Ground Workings	1981	1233814

ID	Location	Land Use	Date	Group ID
C	16m NE	Unspecified Ground Workings	1989	1233814
A	48m NE	Unspecified Old Quarry	1938	1258113
A	51m NE	Unspecified Old Quarry	1949	1282404
A	52m NE	Unspecified Old Quarry	1922	1288426
A	62m NE	Refuse Heap	1949	1179572
A	67m NE	Unspecified Old Quarry	1899	1257034
D	96m N	Unspecified Heap	1965	1200751
D	100m N	Unspecified Pit	1879	1191832
D	104m N	Unspecified Pit	1879	1191831
D	106m N	Unspecified Heap	1965	1200750
E	150m NW	Unspecified Quarry	1879	1198708
E	154m NW	Unspecified Old Quarry	1922	1271499
E	155m NW	Unspecified Old Quarry	1948	1220718
E	156m NW	Unspecified Old Quarry	1899	1213131
E	156m NW	Unspecified Old Quarry	1938	1220718
F	172m NW	Unspecified Quarry	1922	1240236
F	174m NW	Unspecified Disused Quarry	1981	1292924
F	174m NW	Unspecified Quarry	1965	1283150
F	174m NW	Unspecified Disused Quarry	1989	1292924
F	176m NW	Unspecified Quarry	1938	1258717
F	177m NW	Unspecified Quarry	1948	1274014
G	198m S	Unspecified Quarry	1938	1251547
H	201m W	Unspecified Old Quarry	1922	1218125
G	204m S	Unspecified Quarry	1948	1252483
G	205m S	Unspecified Quarry	1922	1268187
H	209m W	Unspecified Old Quarry	1948	1292163
H	212m W	Unspecified Old Quarry	1938	1292163
H	213m W	Unspecified Ground Workings	1879	1184166

ID	Location	Land Use	Date	Group ID
H	215m W	Unspecified Old Quarry	1899	1220059
I	276m N	Unspecified Disused Tip	1981	1223003
I	276m N	Unspecified Disused Tip	1989	1223003
J	288m NW	Rifle Range	1922	1291130
J	291m NW	Disused Rifle Range	1879	1186176
K	301m N	Unspecified Old Quarry	1938	1262329
J	301m NW	Rifle Range	1938	1238633
K	303m N	Unspecified Old Quarry	1899	1236665
K	303m N	Unspecified Old Quarry	1949	1228284
J	303m NW	Rifle Range	1948	1267340
K	304m N	Unspecified Old Quarry	1922	1285510
L	304m NW	Trial Level	1938	1283430
K	307m N	Unspecified Pit	1981	1230379
K	307m N	Unspecified Pit	1965	1230379
L	309m NW	Trial Level	1899	1260421
L	310m NW	Trial Level	1922	1253643
L	322m NW	Trial Level	1948	1253864
M	324m N	Cuttings	1922	1277284
M	325m N	Cuttings	1879	1231030
M	328m N	Cuttings	1899	1231030
M	329m N	Cuttings	1948	1225267
M	331m N	Cuttings	1938	1242850
M	333m N	Cuttings	1981	1222398
M	333m N	Cuttings	1965	1222398
M	333m N	Cuttings	1989	1222398
N	338m N	Tunnel	1922	1259037
N	340m N	Tunnel	1879	1224802
N	342m N	Tunnel	1899	1214529

ID	Location	Land Use	Date	Group ID
N	344m N	Tunnel	1948	1264681
N	349m N	Tunnel	1981	1276435
N	349m N	Tunnel	1965	1276435
N	349m N	Tunnel	1989	1276435
N	351m N	Tunnel	1938	1264681
O	352m SE	Unspecified Old Quarry	1948	1247847
O	352m SE	Unspecified Old Quarry	1899	1220615
O	352m SE	Unspecified Quarry	1881	1198356
O	353m SE	Unspecified Ground Workings	1965	1183163
O	355m SE	Unspecified Old Quarry	1922	1267663
O	355m SE	Unspecified Old Quarry	1922	1229955
1	365m N	Unspecified Heap	1965	1200752
P	386m NE	Unspecified Ground Workings	1949	1220683
P	387m NE	Unspecified Ground Workings	1983	1265778
Q	388m NW	Railway Station	1938	1233443
Q	390m NW	Railway Station	1922	1294117
Q	396m NW	Railway Station	1948	1270496
2	400m N	Cuttings	1879	1178548
R	400m S	Refuse Heap	1981	1242862
R	400m S	Refuse Heap	1989	1242862
3	406m N	Disused Workings	1989	1194689
S	408m N	Tunnel	1899	1291847
S	408m N	Tunnel	1949	1264681
S	409m N	Tunnel	1938	1291922
T	409m N	Cuttings	1899	1218220
T	411m N	Cuttings	1938	1269792
T	411m N	Cuttings	1949	1269792
S	414m N	Tunnel	1922	1259037

ID	Location	Land Use	Date	Group ID
S	414m N	Tunnel	1881	1224802
T	415m N	Cuttings	1965	1269792
U	415m N	Cuttings	1981	1254939
U	415m N	Cuttings	1989	1280845
T	415m N	Cuttings	1922	1271051
T	415m N	Cuttings	1881	1218220
V	418m W	Unspecified Old Quarries	1938	1230068
V	421m W	Unspecified Old Quarries	1948	1213078
V	422m W	Unspecified Old Quarries	1922	1282193
V	423m W	Unspecified Disused Quarry	1970	1196633
V	432m W	Unspecified Ground Workings	1879	1184165
J	434m W	Unspecified Pit	1970	1192434
4	435m N	Colliery	1949	1215225
W	435m N	Unspecified Depot	1981	1259445
W	435m N	Unspecified Depot	1989	1259445
V	438m W	Unspecified Old Quarries	1899	1231196
J	438m W	Unspecified Old Quarries	1922	1277613
J	438m W	Unspecified Quarry	1879	1198770
J	440m W	Unspecified Old Quarries	1899	1238568
J	441m W	Unspecified Old Quarries	1948	1268649
J	442m W	Unspecified Old Quarries	1948	1241087
J	442m W	Unspecified Old Quarries	1938	1224750
P	442m NE	Unspecified Pit	1949	1191020
J	442m W	Unspecified Old Quarries	1899	1227160
J	443m W	Unspecified Old Quarries	1922	1250159
X	445m N	Disused Colliery	1981	1189095
X	445m N	Unspecified Disused Tip	1981	1209241
X	448m N	Unspecified Ground Workings	1965	1183281

ID	Location	Land Use	Date	Group ID
Y	451m NE	Unspecified Pit	1949	1191019
Y	452m NE	Unspecified Ground Workings	1983	1213767
Y	452m NE	Unspecified Ground Workings	1965	1270637
X	460m N	Refuse Heaps	1949	1243542
Z	462m NE	Unspecified Ground Workings	1949	1285639
5	467m N	Unspecified Heap	1938	1200748
Z	474m NE	Unspecified Ground Workings	1938	1288506
Z	474m NE	Unspecified Ground Workings	1938	1288506
AA	481m NE	Rifle Range	1899	1239484
AA	481m NE	Rifle Range	1949	1280891
Z	481m NE	Unspecified Ground Workings	1922	1233798
Z	484m NE	Unspecified Pit	1899	1218479
AC	484m N	Unspecified Tank	1938	1268830
AC	484m N	Unspecified Tank	1949	1276437
Z	486m NE	Unspecified Pit	1983	1279604
Z	486m NE	Unspecified Pit	1965	1246082
AD	490m W	Mineral Water Works	1899	1271155
AD	491m W	Brewery	1879	1179122
AC	491m N	Unspecified Tank	1922	1203864
AD	492m W	Mineral Water Works	1938	1243719
AA	497m NE	Rifle Range	1922	1241217

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	11

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Covered Tank**	**1976**	**196908**
B	**On site**	**Covered Tank**	**1989**	**190991**
B	**On site**	**Covered Tank**	**1993**	**186663**
W	478m N	Tanks	1993	192060
W	479m N	Tanks	1989	192060
AC	487m N	Unspecified Tank	1920	179646
AC	492m N	Unspecified Tank	1989	179645
AC	493m N	Unspecified Tank	1962	197184
AC	493m N	Unspecified Tank	1976	197184
AC	494m N	Unspecified Tank	1993	202525
AC	494m N	Unspecified Tank	-	176256

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**3**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
AB	482m N	Electricity Substation	1993	122987
AB	482m N	Electricity Substation	1976	119885
AB	483m N	Electricity Substation	1989	122987

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

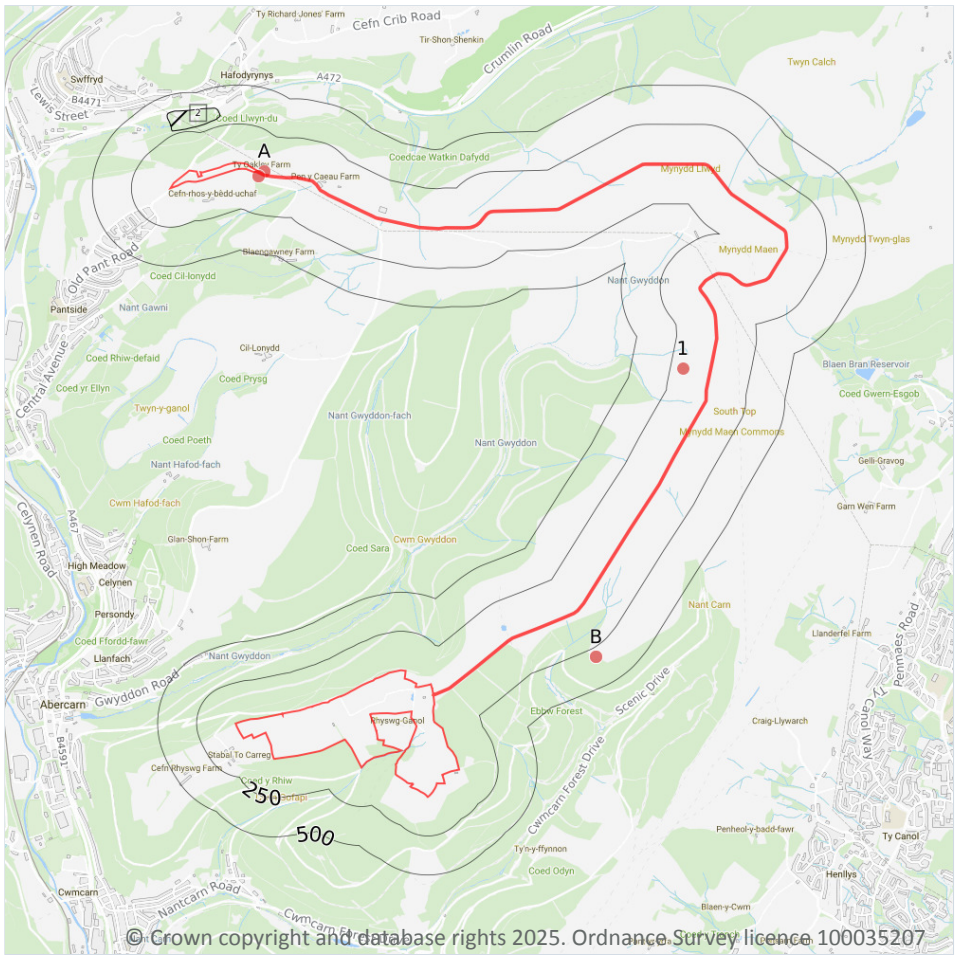
2.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details		
2	266m N	Site Address: Hafodyrynys Road, Hafodyrynys Licence Holder Address: -	Waste Licence: Yes Site Reference: - Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Islwyn Borough Council First Recorded 31/12/1972 Last Recorded: 31/12/1980

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	17

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

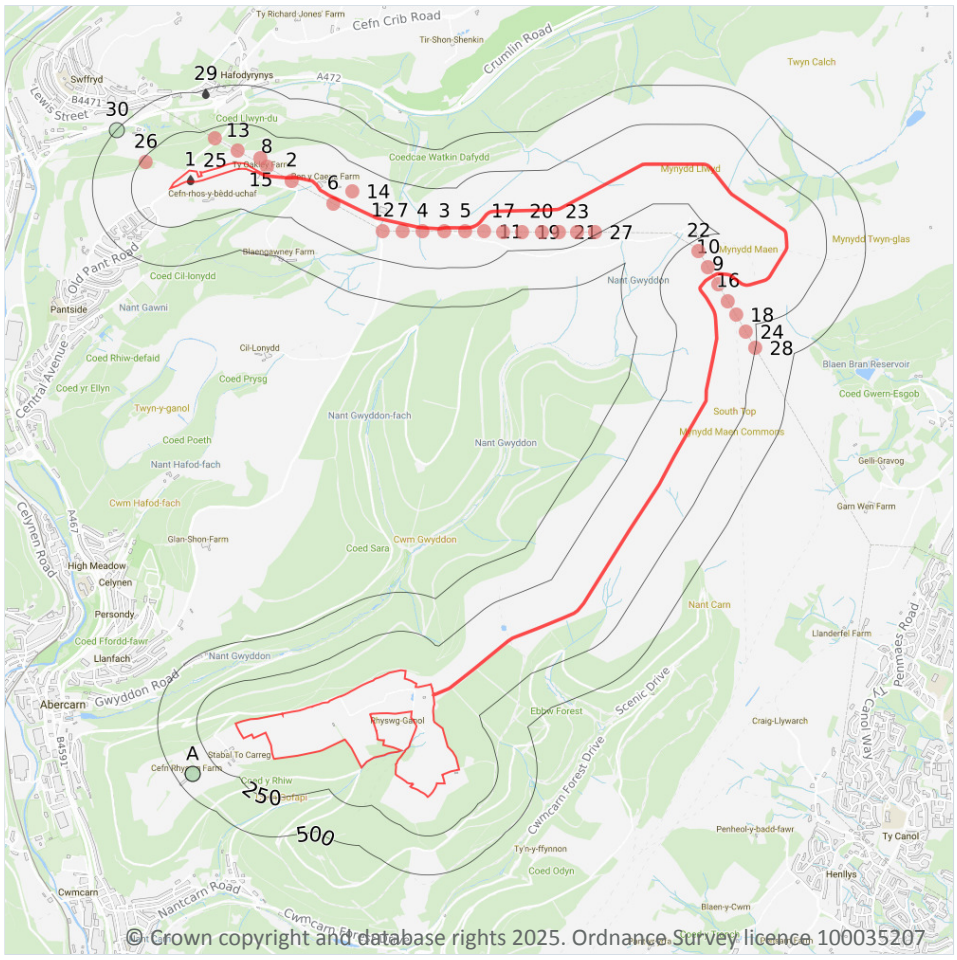
Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	14m NE	Ty Oakley Farm, Hafodyrynys, Crumlin, Newport, Caerffili, Np11 5ay	NRW-WME068644	Using waste exemption	On a farm	Use of waste in construction
A	14m NE	Blaengawney Farm, Hafodyrynys, Crumlin, Newport, Caerphilly, Np11 5ay	NRW-WME040391	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	21m SW	Ty-Oakley Farm, Hafodyrynys, Crumlin, Newport, Gwent, Np115ay	NRW-WME010093	Disposing of waste exemption	On a farm	Burning waste in the open
A	21m SW	Ty-Oakley Farm, Hafodyrynys, Crumlin, Newport, Gwent, Np115ay	NRW-WME010093	Treating waste exemption	On a farm	Recovery of scrap metal
A	21m SW	Ty-Oakley Farm, Hafodyrynys, Crumlin, Newport, Gwent, Np115ay	NRW-WME010093	Storing waste exemption	On a farm	Storage of waste in a secure place
A	21m SW	Ty-Oakley Farm, Hafodyrynys, Crumlin, Newport, Gwent, Np115ay	NRW-WME010093	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
1	171m W	-	WEX258673	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Disposing of waste exemption	Agricultural waste only	Disposal by incineration
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Disposing of waste exemption	Agricultural waste only	Burning waste in the open
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Treating waste exemption	Agricultural waste only	Screening and blending of waste

ID	Location	Site	Reference	Category	Sub-Category	Description
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Using waste exemption	Agricultural waste only	Spreading waste on agricultural land to confer benefit
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Disposing of waste exemption	Agricultural waste only	Deposit of waste from dredging of inland waters
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Storing waste exemption	Agricultural waste only	Storage of waste in secure containers
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Storing waste exemption	Agricultural waste only	Storage of waste in a secure place
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Using waste exemption	Agricultural waste only	Use of waste in construction
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Using waste exemption	Agricultural waste only	Burning of waste as a fuel in a small appliance
B	311m SE	Nower Farm Axminster Devon Ex13 7hd	EPR/ME5082FN/A001	Using waste exemption	Agricultural waste only	Use of waste for a specified purpose

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	27

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 33 >**

ID	Location	Company	Address	Activity	Category
2	14m S	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
3	17m S	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
4	18m S	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
5	18m S	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
6	31m SW	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
7	40m S	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
8	49m NE	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
9	58m SE	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
10	58m NW	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
11	59m SE	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
12	66m S	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
13	77m N	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
14	82m NE	Quarry (Disused)	Gwent, NP11	Unspecified Quarries Or Mines	Extractive Industries
15	83m NE	Mast (Telecommunication)	Gwent, NP11	Telecommunications Features	Infrastructure and Facilities
16	105m NE	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
17	127m S	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
18	127m E	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
19	131m S	Pylon	Gwent, NP4	Electrical Features	Infrastructure and Facilities
20	136m S	Pylon	Gwent, NP4	Electrical Features	Infrastructure and Facilities
21	141m S	Pylon	Gwent, NP4	Electrical Features	Infrastructure and Facilities
22	179m NW	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
23	181m SE	Pylon	Gwent, NP4	Electrical Features	Infrastructure and Facilities
24	184m E	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities
25	184m N	Pylon	Gwent, NP11	Electrical Features	Infrastructure and Facilities
26	224m NW	Quarry (Disused)	Gwent, NP11	Unspecified Quarries Or Mines	Extractive Industries
27	234m SE	Pylon	Gwent, NP4	Electrical Features	Infrastructure and Facilities
28	248m E	Pylon	Gwent, NP44	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m	0

Current or recent tanks identified from the Ordnance Survey NGD.

This data is sourced from Ordnance Survey.

4.3 Current or recent petrol stations

Records within 500m	0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.6 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.7 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.8 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.9 Hazardous substance storage/usage

Records within 500m	0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.10 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.12 Licensed pollutant release (Part A(2)/B)

Records within 500m	0

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.13 Radioactive Substance Authorisations

Records within 500m	0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Licensed Discharges to controlled waters

Records within 500m	2

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 33 >**

ID	Location	Address	Details	
1	**On site**	**PANTNEWBRIDGEPANTSIDE**	**Effluent Type: UNSPECIFIED** **Permit Number: AM0007701** **Permit Version: 1** **Receiving Water: SOAKAWAY**	**Status: CONSENT EXPIRED - TIME LIMIT** **Issue date: 02/10/1989** **Effective Date: 02/10/1989** **Revocation Date: 14/03/1994**
29	472m N	HAFODYRYNYSHIGHWAYSDEPOTNORTHOF, HAFODYRYNYSHIGHWAYSDEPOTNORTH, HIGHWAYSDEPOTNORTHOFSWFFRYD, NORTHOFSWFFRYDRD	Effluent Type: UNSPECIFIED Permit Number: AC0122501 Permit Version: 1 Receiving Water: UNSPECIFIED	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 12/12/1979 Effective Date: 12/12/1979 Revocation Date: 24/02/1993

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to surface waters (Red List)

Records within 500m	**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 Pollutant release to public sewer

Records within 500m	**0**

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 1 Dangerous Substances

Records within 500m	**0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution Incidents (EA/NRW)

Records within 500m	3

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 33 >**

ID	Location	Details	
A	400m SW	Incident Date: 20/04/2016 Incident Identification: 1601863 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: No Details Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
A	400m SW	Incident Date: 20/04/2016 Incident Identification: 1601863 Pollutant: - Pollutant Description: -	Water Impact: No Details Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
30	497m NW	Incident Date: 23/07/2020 Incident Identification: 2005248 Pollutant: Sewage Material Pollutant Description: Crude Sewage	Water Impact: Category 2 (Significant) Land Impact: No Details Air Impact: No Details

This data is sourced from the Environment Agency and Natural Resources Wales.

4.20 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

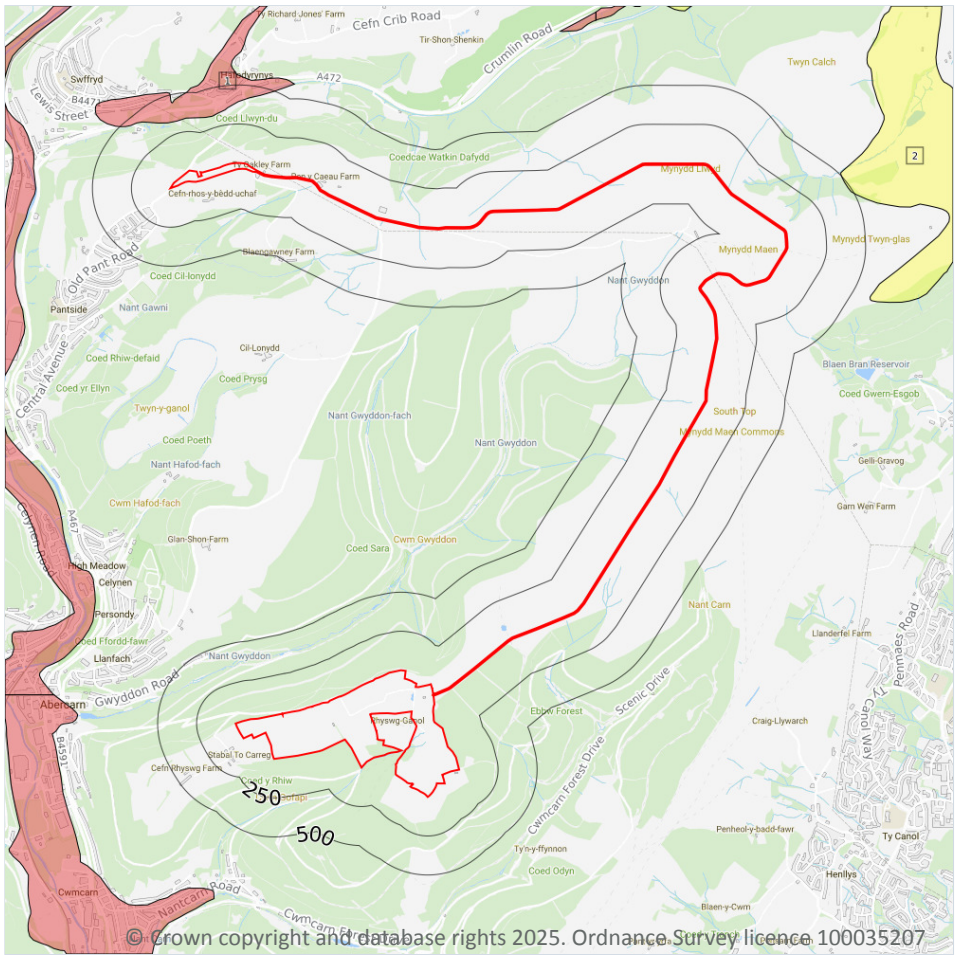
4.22 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



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Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	2

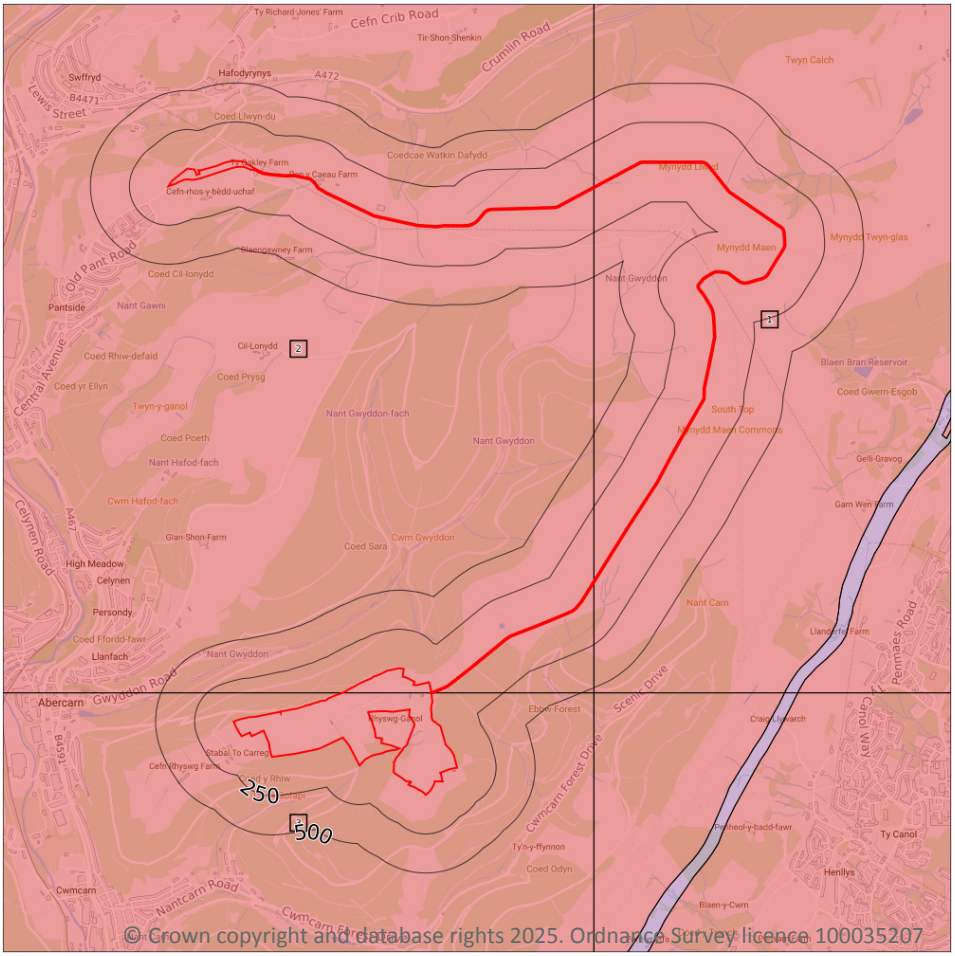
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 41 >**

ID	Location	Designation	Description
1	324m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	486m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Bedrock aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive

5.2 Bedrock aquifer

Records within 500m	3

Aquifer status of groundwater held within bedrock geology.

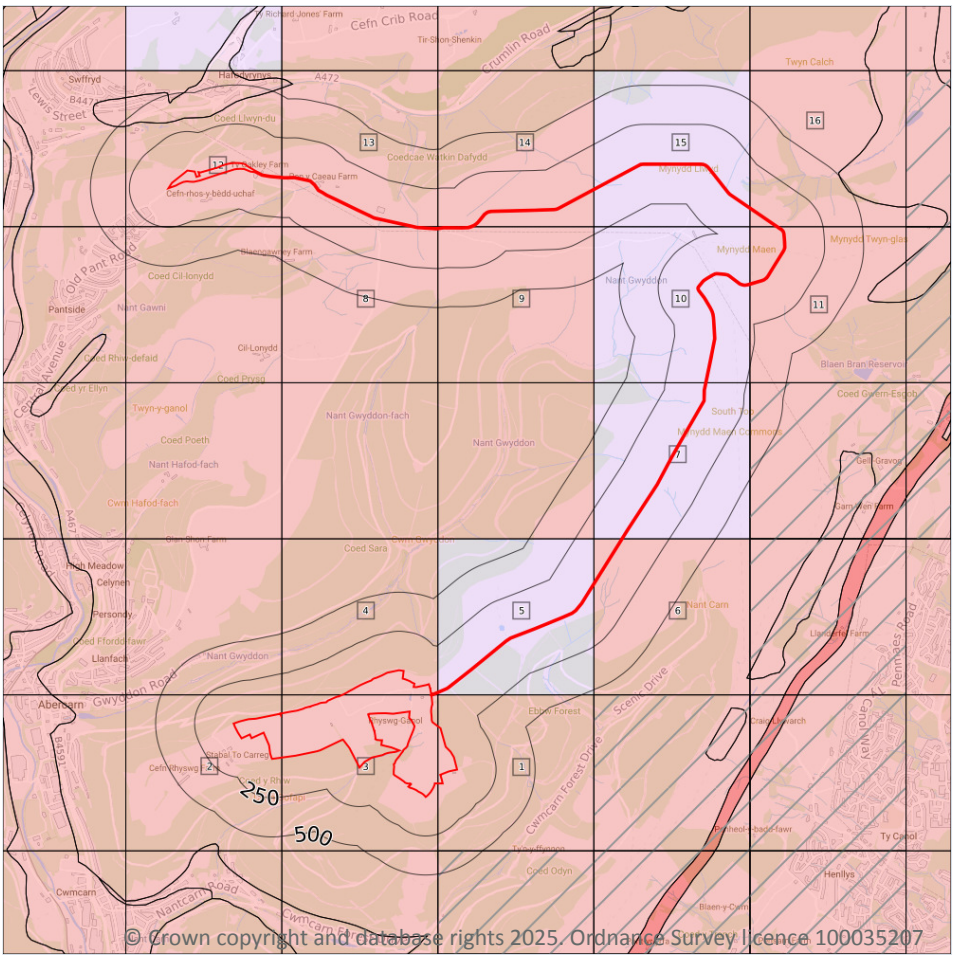
Features are displayed on the Bedrock aquifer map on **page 43 >**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	16

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 45 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
7	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
13	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
14	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
15	**On site**	**Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures**
16	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer**	**Leaching class: High Infiltration value: 40-70% Dilution value: >550mm/year**	**Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

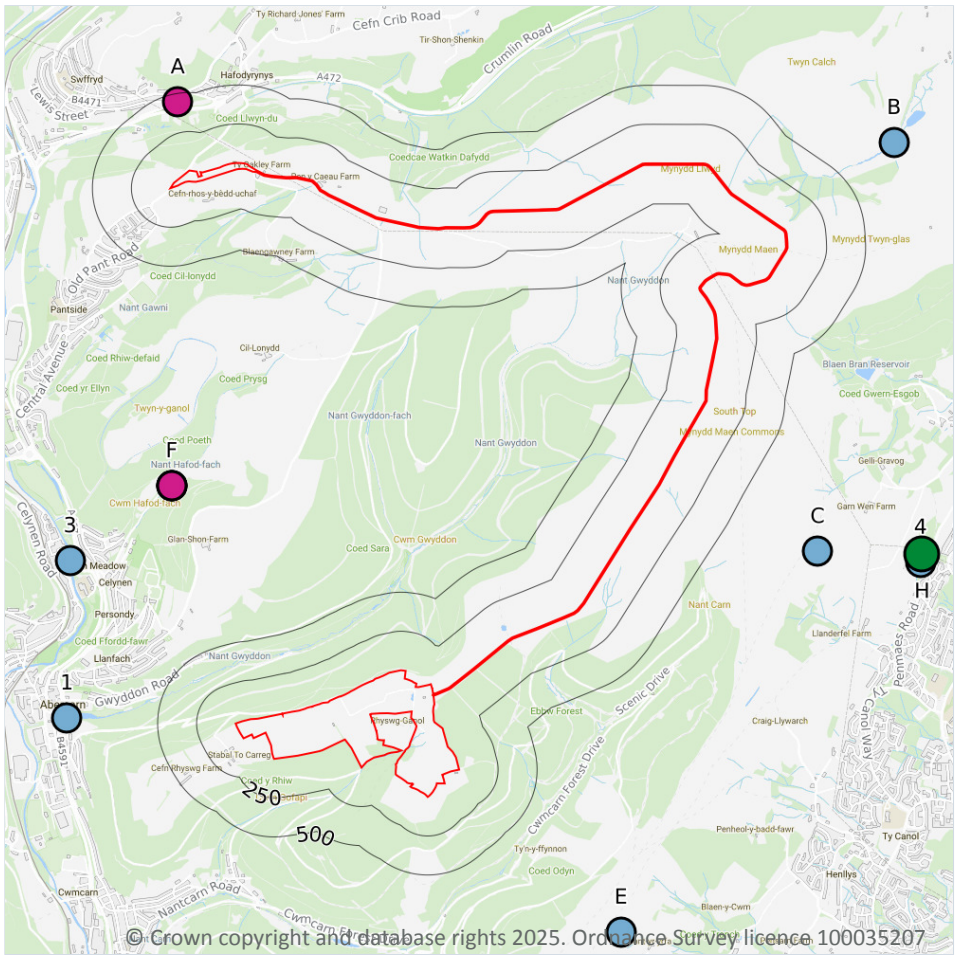
5.5 Groundwater vulnerability- local information

Records on site	**0**

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	5

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 49 >**

ID	Location	Details	
A	446m N	Status: Historical Licence No: 20/56/62/0019 Details: Water Bottling Direct Source: EAW Groundwater Point: BOREHOLE AT THE OLD RECTORY, CRUMLIN Data Type: Point Name: Harriott Easting: 322320 Northing: 198800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/2003 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 21/07/2003 Version End Date: -
F	1576m N	Status: Active Licence No: 20/56/62/0018 Details: Dust Supression - High Direct Source: Underground Strata Point: - Data Type: Point Name: - Easting: 322281 Northing: 196340	Annual Volume (m^3): 18000 Max Daily Volume (m^3): 60 Original Application No: - Original Start Date: 26/09/2022 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
F	1576m N	Status: Historical Licence No: 20/56/62/0018 Details: Dust Suppression Direct Source: EAW Groundwater Point: HAFORD QUARRY Data Type: Point Name: Lafarge Aggregates Limited Easting: 322281 Northing: 196340	Annual Volume (m^3): 18000 Max Daily Volume (m^3): 60 Original Application No: - Original Start Date: 16/10/1998 Expiry Date: - Issue No: 103 Version Start Date: 12/09/2013 Version End Date: -
F	1576m N	Status: Historical Licence No: 20/56/62/0018 Details: Dust Suppression Direct Source: EAW Groundwater Point: BOREHOLE AT HAFOD QUARRY Data Type: Point Name: Tarmac Aggregates Limited Easting: 322281 Northing: 196340	Annual Volume (m^3): 18000 Max Daily Volume (m^3): 60 Original Application No: - Original Start Date: 16/10/1998 Expiry Date: - Issue No: 104 Version Start Date: 16/11/2015 Version End Date: -
F	1576m N	Status: Historical Licence No: 20/56/62/0018 Details: Dust Suppression Direct Source: EAW Groundwater Point: BOREHOLE AT HAFOD QUARRY Data Type: Point Name: Lafarge Aggregates Limited Easting: 322280 Northing: 196340	Annual Volume (m^3): 18000 Max Daily Volume (m^3): 60 Original Application No: - Original Start Date: 16/10/1998 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	22

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 49 >**

ID	Location	Details	
B	896m NE	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: NANT LLEUCU TO PENYRHEOL RESERVOIR (POINT 21) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 326910 Northing: 198540	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
1	1083m W	Status: Historical Licence No: WA/056/0062/001 Details: Hydroelectric Power Generation Direct Source: EAW Surface Water Point: NANT GWYDDON Data Type: Point Name: C6 Technologies Easting: 321609 Northing: 194852	Annual Volume (m^3): 4799520 Max Daily Volume (m^3): 21600 Original Application No: - Original Start Date: 27/10/2010 Expiry Date: 31/03/2017 Issue No: 1 Version Start Date: 27/10/2010 Version End Date: -
C	1092m SE	Status: Historical Licence No: 20/56/12/0075 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: EAW Surface Water Point: SPRING NEAR GARN WEN FARM Data Type: Point Name: James Easting: 326420 Northing: 195920	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/02/1993 Expiry Date: - Issue No: 100 Version Start Date: 22/02/1993 Version End Date: -
-	1094m N	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: COED-GOLYNOS INTAKE (POINT 19) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 325830 Northing: 199490	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -

ID	Location	Details	
-	1402m N	Status: Historical Licence No: 20/56/62/0003 Details: General Farming & Domestic Direct Source: EAW Surface Water Point: SPRING NEAR TYR HEN FORWYN FARM Data Type: Point Name: Sian Margaret White and Michael Richard White Easting: 323650 Northing: 199620	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/11/1965 Expiry Date: - Issue No: 101 Version Start Date: 21/11/2003 Version End Date: -
E	1469m SE	Status: Historical Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: SPRING TO PANT-YR-EOS RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 325160 Northing: 193480	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 22730 Original Application No: - Original Start Date: 15/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
3	1489m NW	Status: Active Licence No: WA/056/0062/002 Details: Fish Pass / Canoe Pass - Very Low Direct Source: - Point: - Data Type: Point Name: - Easting: 321630 Northing: 195860	Annual Volume (m^3): 0 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 04/08/2011 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1642m SE	Status: Historical Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: SPRING TO PANT-YR-EOS RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 325210 Northing: 193290	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 22730 Original Application No: - Original Start Date: 15/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
-	1642m SE	Status: Historical Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 325210 Northing: 193290	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
-	1642m SE	Status: Active Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 325210 Northing: 193290	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 22730 Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
H	1686m SE	Status: Historical Licence No: 20/56/12/0037 Details: Drinking, Cooking, Sanitary Washing (small garden) - Household - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 327090 Northing: 195900	Annual Volume (m^3): 149.34 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Mar 12 2008 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
H	1686m SE	Status: Historical Licence No: 20/56/12/0037 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: EAW Surface Water Point: SPRING NEAR PARK HOUSE FARM Data Type: Point Name: Gillard Easting: 327090 Northing: 195900	Annual Volume (m^3): 149.336 Max Daily Volume (m^3): 0.409 Original Application No: - Original Start Date: 31/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
4	1702m SE	Status: Historical Licence No: 20/56/12/0038 Details: General Farming & Domestic Direct Source: EAW Surface Water Point: SPRING NEAR HILLSIDE COTTAGE Data Type: Point Name: Rogers Easting: 327080 Northing: 195850	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 31/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/04/1978 Version End Date: -
-	1922m W	Status: Historical Licence No: 20/56/62/0016 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: EAW Surface Water Point: SPRING NEAR CILFYNYDD FARM Data Type: Point Name: Cook Easting: 320900 Northing: 194120	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/03/1983 Expiry Date: - Issue No: 100 Version Start Date: 06/09/1999 Version End Date: -

ID	Location	Details	
-	1953m E	Status: Historical Licence No: 20/56/12/0065 Details: Spray Irrigation - Direct Direct Source: EAW Surface Water Point: BROOK NEAR MAESGWYN FARM Data Type: Point Name: Pontnewydd Golf Club Easting: 328180 Northing: 197800	Annual Volume (m^3): 9088.2 Max Daily Volume (m^3): 54 Original Application No: - Original Start Date: 09/02/1976 Expiry Date: - Issue No: 101 Version Start Date: 20/11/2008 Version End Date: -
-	1973m E	Status: Historical Licence No: 20/56/12/0065 Details: Spray Irrigation - Direct - High Direct Source: Un-named Brook Adjacent to Maesgwyn Farm Point: - Data Type: Point Name: - Easting: 328200 Northing: 197800	Annual Volume (m^3): 9088.2 Max Daily Volume (m^3): 259.2 Original Application No: - Original Start Date: 11/07/2017 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1973m E	Status: Historical Licence No: 20/56/12/0065 Details: Spray Irrigation - Direct - High Direct Source: Un-named Brook Adjacent to Maesgwyn Farm Point: - Data Type: Point Name: - Easting: 328200 Northing: 197800	Annual Volume (m^3): 363.7 Max Daily Volume (m^3): 326.4 Original Application No: - Original Start Date: 11/07/2017 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1973m E	Status: Active Licence No: 20/56/12/0065 Details: Spray Irrigation - Direct - High Direct Source: Un-named Brook Adjacent to Maesgwyn Farm Point: - Data Type: Point Name: - Easting: 328200 Northing: 197800	Annual Volume (m^3): 9088.2 Max Daily Volume (m^3): 54 Original Application No: - Original Start Date: 12/05/2023 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
-	1973m E	Status: Active Licence No: 20/56/12/0065 Details: Spray Irrigation - Direct - High Direct Source: Un-named Brook Adjacent to Maesgwyn Farm Point: - Data Type: Point Name: - Easting: 328200 Northing: 197800	Annual Volume (m^3): 363.7 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/05/2023 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1996m NE	Status: Active Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 327690 Northing: 199320	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1996m NE	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: INTAKE CHAMBER AT PENYRHEOL RESERVOIR (POINT 23) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 327690 Northing: 199320	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
-	1996m NE	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 327690 Northing: 199320	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 6000 Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	14

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 49 >**

ID	Location	Details	
A	446m N	Status: Historical Licence No: 20/56/62/0019 Details: Water Bottling Direct Source: EAW Groundwater Point: BOREHOLE AT THE OLD RECTORY, CRUMLIN Data Type: Point Name: Harriott Easting: 322320 Northing: 198800	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/07/2003 Expiry Date: 31/03/2013 Issue No: 1 Version Start Date: 21/07/2003 Version End Date: -
B	896m NE	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: NANT LLEUCU TO PENYRHEOL RESERVOIR (POINT 21) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 326910 Northing: 198540	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
C	1092m SE	Status: Historical Licence No: 20/56/12/0075 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: EAW Surface Water Point: SPRING NEAR GARN WEN FARM Data Type: Point Name: James Easting: 326420 Northing: 195920	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/02/1993 Expiry Date: - Issue No: 100 Version Start Date: 22/02/1993 Version End Date: -
-	1094m N	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: COED-GOLYNOS INTAKE (POINT 19) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 325830 Northing: 199490	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -

ID	Location	Details	
E	1469m SE	Status: Historical Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: SPRING TO PANT-YR-EOS RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 325160 Northing: 193480	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 22730 Original Application No: - Original Start Date: 15/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
-	1642m SE	Status: Historical Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 325210 Northing: 193290	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1642m SE	Status: Historical Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: SPRING TO PANT-YR-EOS RESERVOIR Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 325210 Northing: 193290	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 22730 Original Application No: - Original Start Date: 15/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
-	1642m SE	Status: Active Licence No: 20/56/11/0007 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 325210 Northing: 193290	Annual Volume (m^3): 1659290 Max Daily Volume (m^3): 22730 Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
H	1686m SE	Status: Historical Licence No: 20/56/12/0037 Details: Drinking, Cooking, Sanitary Washing (small garden) - Household - Medium Direct Source: - Point: - Data Type: Point Name: - Easting: 327090 Northing: 195900	Annual Volume (m^3): 149.34 Max Daily Volume (m^3): - Original Application No: - Original Start Date: Mar 12 2008 12:00AM Expiry Date: - Issue No: - Version Start Date: - Version End Date: -

ID	Location	Details	
H	1686m SE	Status: Historical Licence No: 20/56/12/0037 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: EAW Surface Water Point: SPRING NEAR PARK HOUSE FARM Data Type: Point Name: Gillard Easting: 327090 Northing: 195900	Annual Volume (m^3): 149.336 Max Daily Volume (m^3): 0.409 Original Application No: - Original Start Date: 31/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -
-	1922m W	Status: Historical Licence No: 20/56/62/0016 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: EAW Surface Water Point: SPRING NEAR CILFYNYDD FARM Data Type: Point Name: Cook Easting: 320900 Northing: 194120	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/03/1983 Expiry Date: - Issue No: 100 Version Start Date: 06/09/1999 Version End Date: -
-	1996m NE	Status: Active Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 327690 Northing: 199320	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1996m NE	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct - Medium Direct Source: Groundwater fed spring and reservoir Point: - Data Type: Point Name: - Easting: 327690 Northing: 199320	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 6000 Original Application No: - Original Start Date: 12/03/2008 Expiry Date: - Issue No: - Version Start Date: - Version End Date: -
-	1996m NE	Status: Historical Licence No: 20/56/12/0051 Details: Potable Water Supply - Direct Direct Source: EAW Surface Water Point: INTAKE CHAMBER AT PENYRHEOL RESERVOIR (POINT 23) Data Type: Point Name: Dwr Cymru Cyfyngedig Easting: 327690 Northing: 199320	Annual Volume (m^3): 1363800 Max Daily Volume (m^3): 5455.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/03/2008 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

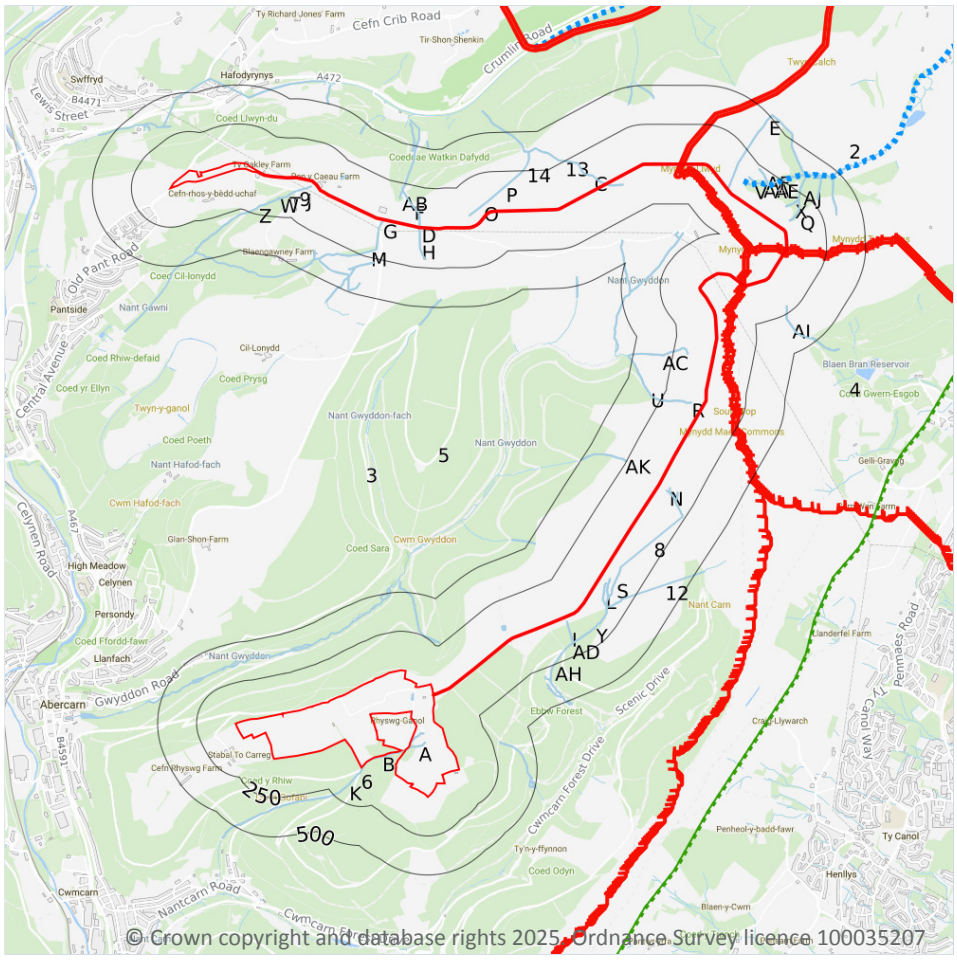
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	80

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 60 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**

ID	Location	Type of water feature	Ground level	Permanence	Name
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
E	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
G	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	1m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	22m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	23m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	41m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
K	42m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	43m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
L	48m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	51m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	53m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	54m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	55m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	56m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	59m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
P	59m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	60m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	60m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	61m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	65m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	65m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
R	70m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	72m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	72m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
8	74m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
S	74m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	74m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	75m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	76m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	78m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	89m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	91m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	96m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	109m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
V	110m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	121m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	123m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	124m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
X	124m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	125m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	134m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Y	134m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	136m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	136m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Z	137m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	138m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
V	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	140m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	143m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	147m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	151m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	153m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	157m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	167m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AE	175m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AD	176m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AF	179m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	181m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
AD	182m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	184m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	185m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AD	187m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AB	187m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
12	188m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
AH	201m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AI	207m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	213m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	229m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AJ	229m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	246m NW	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AK	247m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
14	248m N	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**47**

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 60 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**3**

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 60 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
2	**On site**	**River WB catchment**	**Afon Lwyd - source to Mon and Brecon Canal**	**GB109056032912**	**Llwyd**	**Usk**
3	**On site**	**River WB catchment**	**Ebbw R - conf Ebbw Fach R to Maes-glas**	**GB109056026910**	**Ebbw Sirhowy**	**South East Valleys**
4	**On site**	**River WB catchment**	**Afon Lwyd - below Mon and Brecon Canal**	**GB109056032911**	**Llwyd**	**Usk**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	3

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site.

Features are displayed on the Hydrology map on **page 60 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
10	108m NE	River	Afon Lwyd - source to Mon and Brecon Canal	GB109056032912	Poor	Good	Poor	2016
-	861m W	River	Ebbw R - conf Ebbw Fach R to Maes-glas	GB109056026910	Moderate	Fail	Moderate	2016
-	3675m E	River	Afon Lwyd - below Mon and Brecon Canal	GB109056032911	Good	Good	Good	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place.

Features are displayed on the Hydrology map on **page 60 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
5	**On site**	**SE Valleys Carboniferous Coal Measures**	**GB40902G201900**	**Poor**	**Poor**	**Good**	**2017**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

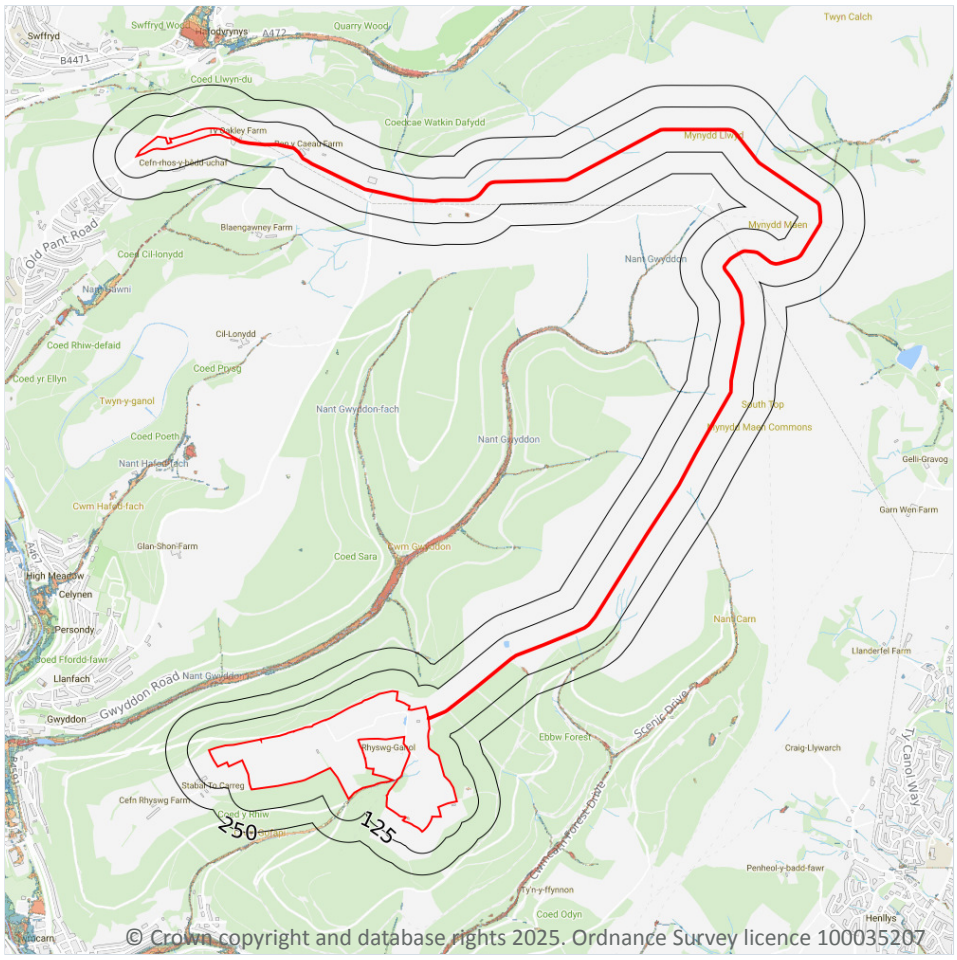
7.7 Flood Zone 3

Records within 50m	0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site	**1 in 30 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.3m - 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 72 >**

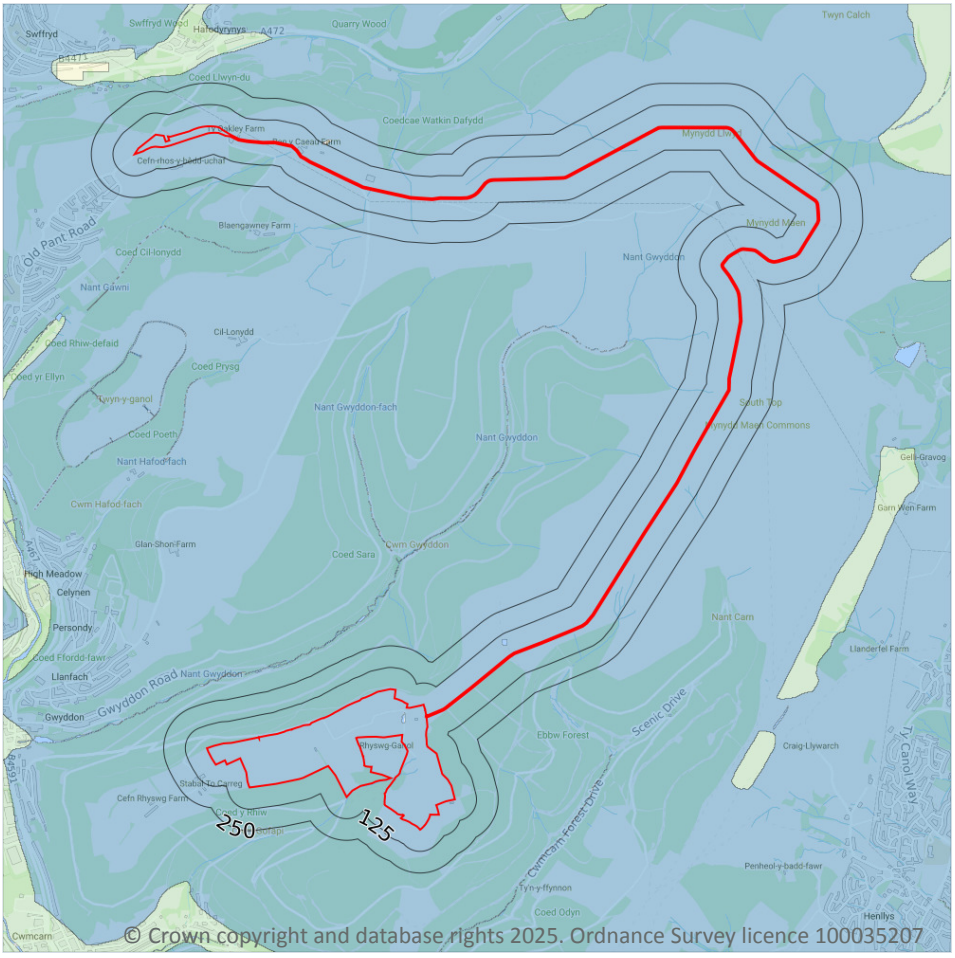
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

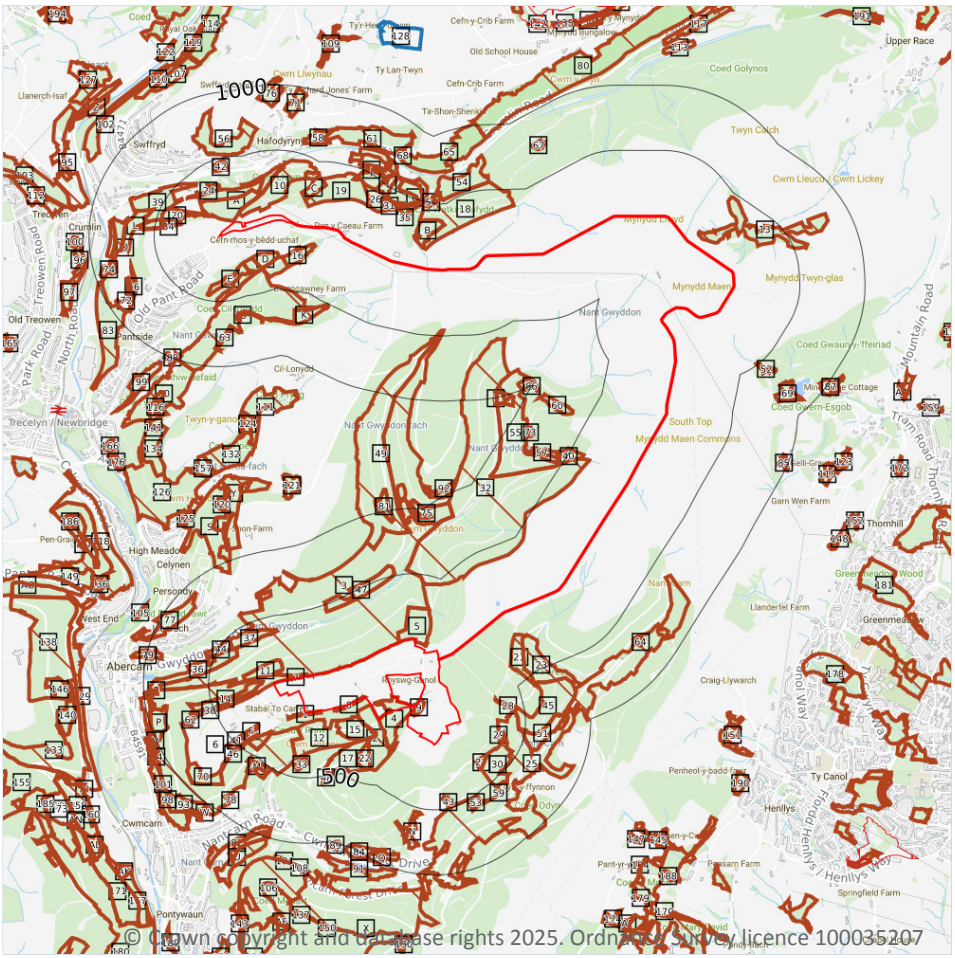
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 74 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 75 >**

ID	Location	Name	Data source
128	1469m N	Ty'r Hen Forwyn	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 75 >**

ID	Location	Name	Data source
131	1508m N	Tir-Pentwys	Natural Resources Wales

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	304

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 75 >**

ID	Location	Name	Woodland Type
1	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
2	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
3	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
4	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
5	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
6	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
7	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
8	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
9	**On site**	**Unknown**	**Plantation on Ancient Woodland Site**
A	14m NW	Unknown	Ancient Semi Natural Woodland
10	49m N	Unknown	Plantation on Ancient Woodland Site
11	61m N	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
12	65m S	Unknown	Plantation on Ancient Woodland Site
13	73m NE	Unknown	Ancient Semi Natural Woodland
14	84m W	Unknown	Restored Ancient Woodland Site
15	92m SW	Unknown	Plantation on Ancient Woodland Site
16	125m S	Unknown	Ancient Semi Natural Woodland
17	141m S	Unknown	Plantation on Ancient Woodland Site
18	144m N	Unknown	Plantation on Ancient Woodland Site
B	147m N	Unknown	Plantation on Ancient Woodland Site
19	152m N	Unknown	Plantation on Ancient Woodland Site
20	168m NW	Unknown	Plantation on Ancient Woodland Site
21	180m SE	Unknown	Plantation on Ancient Woodland Site
A	181m N	Unknown	Plantation on Ancient Woodland Site
22	183m SW	Unknown	Plantation on Ancient Woodland Site
B	194m N	Unknown	Restored Ancient Woodland Site
C	196m NE	Unknown	Plantation on Ancient Woodland Site
D	208m S	Unknown	Ancient Semi Natural Woodland
23	215m S	Unknown	Plantation on Ancient Woodland Site
D	221m S	Unknown	Restored Ancient Woodland Site
E	249m S	Unknown	Ancient Semi Natural Woodland
D	265m SW	Unknown	Plantation on Ancient Woodland Site
24	270m NW	Unknown	Ancient Semi Natural Woodland
F	282m SW	Unknown	Ancient Semi Natural Woodland
F	286m S	Unknown	Ancient Semi Natural Woodland
25	287m E	Unknown	Plantation on Ancient Woodland Site
26	293m NE	Unknown	Plantation on Ancient Woodland Site
27	300m SE	Unknown	Plantation on Ancient Woodland Site
28	300m E	Unknown	Plantation on Ancient Woodland Site
29	302m E	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
D	316m S	Unknown	Plantation on Ancient Woodland Site
D	321m S	Unknown	Plantation on Ancient Woodland Site
30	321m SE	Unknown	Plantation on Ancient Woodland Site
G	322m S	Unknown	Plantation on Ancient Woodland Site
D	322m S	Unknown	Restored Ancient Woodland Site
D	324m S	Unknown	Plantation on Ancient Woodland Site
31	325m NE	Unknown	Plantation on Ancient Woodland Site
E	326m S	Unknown	Plantation on Ancient Woodland Site
D	327m S	Unknown	Restored Ancient Woodland Site
H	336m NE	Unknown	Plantation on Ancient Woodland Site
32	337m NW	Unknown	Plantation on Ancient Woodland Site
33	340m S	Unknown	Plantation on Ancient Woodland Site
C	341m NE	Unknown	Restored Ancient Woodland Site
34	342m W	Unknown	Plantation on Ancient Woodland Site
35	343m NE	Unknown	Plantation on Ancient Woodland Site
F	347m SW	Unknown	Ancient Semi Natural Woodland
36	351m NW	Unknown	Ancient Semi Natural Woodland
37	358m N	Unknown	Restored Ancient Woodland Site
38	383m W	Unknown	Restored Ancient Woodland Site
H	384m NE	Unknown	Plantation on Ancient Woodland Site
39	393m NW	Unknown	Restored Ancient Woodland Site
40	396m NW	Unknown	Ancient Semi Natural Woodland
41	400m SW	Unknown	Plantation on Ancient Woodland Site
42	400m N	Unknown	Ancient Semi Natural Woodland
43	401m S	Unknown	Plantation on Ancient Woodland Site
44	409m NW	Unknown	Plantation on Ancient Woodland Site
H	411m NE	Unknown	Plantation on Ancient Woodland Site
I	422m NE	Unknown	Plantation on Ancient Woodland Site

ID	Location	Name	Woodland Type
45	425m E	Unknown	Plantation on Ancient Woodland Site
46	435m SW	Unknown	Plantation on Ancient Woodland Site
47	438m NW	Unknown	Restored Ancient Woodland Site
48	444m S	Unknown	Plantation on Ancient Woodland Site
49	459m S	Unknown	Plantation on Ancient Woodland Site
J	464m N	Unknown	Plantation on Ancient Woodland Site
50	466m N	Unknown	Plantation on Ancient Woodland Site
51	477m E	Unknown	Restored Ancient Woodland Site
52	490m SE	Unknown	Ancient Semi Natural Woodland
53	495m SE	Unknown	Restored Ancient Woodland Site
54	504m N	Unknown	Ancient Semi Natural Woodland
K	508m SW	Unknown	Ancient Semi Natural Woodland
L	508m W	Unknown	Plantation on Ancient Woodland Site
M	511m SW	Unknown	Ancient Semi Natural Woodland
I	511m NE	Unknown	Restored Ancient Woodland Site
55	512m NW	Unknown	Plantation on Ancient Woodland Site
56	514m N	Unknown	Restored Ancient Woodland Site
I	515m NE	Unknown	Ancient Semi Natural Woodland
J	527m N	Unknown	Plantation on Ancient Woodland Site
N	531m S	Unknown	Ancient Semi Natural Woodland
57	542m NW	Unknown	Restored Ancient Woodland Site
M	548m SW	Unknown	Restored Ancient Woodland Site
K	569m SW	Unknown	Plantation on Ancient Woodland Site
58	583m N	Unknown	Plantation on Ancient Woodland Site
59	586m SE	Unknown	Restored Ancient Woodland Site
G	608m S	Unknown	Restored Ancient Woodland Site
60	623m NW	Unknown	Plantation on Ancient Woodland Site
61	643m N	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
62	651m W	Unknown	Plantation on Ancient Woodland Site
N	655m SW	Unknown	Plantation on Ancient Woodland Site
63	693m S	Unknown	Ancient Semi Natural Woodland
L	697m W	Unknown	Restored Ancient Woodland Site
O	698m W	Unknown	Restored Ancient Woodland Site
64	707m SE	Unknown	Plantation on Ancient Woodland Site
65	707m NW	Unknown	Ancient Semi Natural Woodland
66	714m W	Unknown	Ancient Semi Natural Woodland
67	715m NW	Unknown	Ancient Semi Natural Woodland
O	720m W	Unknown	Ancient Semi Natural Woodland
68	720m NE	Unknown	Plantation on Ancient Woodland Site
69	730m SE	Unknown	Ancient Semi Natural Woodland
70	736m SW	Unknown	Plantation on Ancient Woodland Site
71	760m N	Unknown	Ancient Semi Natural Woodland
72	768m SW	Unknown	Plantation on Ancient Woodland Site
O	797m W	Unknown	Ancient Semi Natural Woodland
73	802m NW	Unknown	Restored Ancient Woodland Site
74	821m W	Unknown	Ancient Semi Natural Woodland
75	831m NW	Unknown	Plantation on Ancient Woodland Site
76	836m N	Unknown	Ancient Semi Natural Woodland
77	839m NW	Unknown	Ancient Semi Natural Woodland
P	840m W	Unknown	Restored Ancient Woodland Site
78	846m SW	Unknown	Plantation on Ancient Woodland Site
79	879m W	Unknown	Ancient Semi Natural Woodland
Q	884m S	Unknown	Ancient Semi Natural Woodland
Q	888m SW	Unknown	Ancient Semi Natural Woodland
R	897m W	Unknown	Ancient Semi Natural Woodland
R	898m W	Unknown	Plantation on Ancient Woodland Site

ID	Location	Name	Woodland Type
80	899m N	Unknown	Restored Ancient Woodland Site
R	903m W	Unknown	Ancient Semi Natural Woodland
81	912m N	Unknown	Restored Ancient Woodland Site
S	912m N	Unknown	Ancient Semi Natural Woodland
82	919m S	Unknown	Ancient Semi Natural Woodland
83	925m SW	Unknown	Ancient Semi Natural Woodland
R	929m W	Unknown	Ancient Semi Natural Woodland
84	929m SW	Unknown	Plantation on Ancient Woodland Site
85	931m SE	Unknown	Ancient Semi Natural Woodland
86	934m NW	Unknown	Plantation on Ancient Woodland Site
87	947m SE	Unknown	Plantation on Ancient Woodland Site
T	953m S	Unknown	Restored Ancient Woodland Site
T	957m S	Unknown	Ancient Semi Natural Woodland
88	957m S	Unknown	Ancient Semi Natural Woodland
P	969m W	Unknown	Restored Ancient Woodland Site
U	969m S	Unknown	Ancient Semi Natural Woodland
89	982m S	Unknown	Plantation on Ancient Woodland Site
S	985m N	Unknown	Plantation on Ancient Woodland Site
90	997m S	Unknown	Plantation on Ancient Woodland Site
V	1000m SW	Unknown	Plantation on Ancient Woodland Site
91	1005m S	Unknown	Plantation on Ancient Woodland Site
92	1006m NW	Unknown	Plantation on Ancient Woodland Site
93	1007m SW	Unknown	Ancient Semi Natural Woodland
94	1012m SW	Unknown	Ancient Semi Natural Woodland
U	1012m S	Unknown	Ancient Semi Natural Woodland
V	1033m SW	Unknown	Ancient Semi Natural Woodland
95	1039m W	Unknown	Ancient Semi Natural Woodland
96	1048m W	Unknown	Restored Ancient Woodland Site

ID	Location	Name	Woodland Type
97	1050m W	Unknown	Ancient Semi Natural Woodland
W	1055m SW	Unknown	Ancient Semi Natural Woodland
98	1057m SW	Unknown	Ancient Semi Natural Woodland
99	1067m SW	Unknown	Ancient Semi Natural Woodland
100	1074m W	Unknown	Restored Ancient Woodland Site
S	1076m N	Unknown	Plantation on Ancient Woodland Site
W	1090m SW	Unknown	Restored Ancient Woodland Site
X	1092m S	Unknown	Plantation on Ancient Woodland Site
101	1102m SW	Unknown	Plantation on Ancient Woodland Site
S	1110m N	Unknown	Restored Ancient Woodland Site
102	1120m NW	Unknown	Ancient Semi Natural Woodland
103	1123m W	Unknown	Ancient Semi Natural Woodland
104	1123m S	Unknown	Restored Ancient Woodland Site
105	1131m NW	Unknown	Ancient Semi Natural Woodland
106	1145m S	Unknown	Ancient Woodland Site of Unknown Category
107	1157m NW	Unknown	Ancient Semi Natural Woodland
108	1162m S	Unknown	Restored Ancient Woodland Site
S	1168m N	Unknown	Plantation on Ancient Woodland Site
S	1169m N	Unknown	Plantation on Ancient Woodland Site
109	1182m N	Unknown	Ancient Semi Natural Woodland
110	1183m NW	Unknown	Ancient Semi Natural Woodland
111	1204m S	Unknown	Ancient Semi Natural Woodland
112	1221m W	Unknown	Ancient Semi Natural Woodland
S	1232m N	Unknown	Plantation on Ancient Woodland Site
113	1243m N	Unknown	Ancient Woodland Site of Unknown Category
114	1245m N	Unknown	Ancient Semi Natural Woodland
115	1266m E	Unknown	Ancient Semi Natural Woodland
116	1270m S	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
Y	1283m N	Unknown	Plantation on Ancient Woodland Site
117	1316m N	Unknown	Restored Ancient Woodland Site
118	1325m NW	Unknown	Ancient Semi Natural Woodland
Z	1330m NW	Unknown	Ancient Semi Natural Woodland
119	1332m N	Unknown	Ancient Semi Natural Woodland
120	1352m N	Unknown	Plantation on Ancient Woodland Site
121	1358m N	Unknown	Ancient Semi Natural Woodland
122	1359m NW	Unknown	Restored Ancient Woodland Site
123	1359m E	Unknown	Ancient Semi Natural Woodland
124	1369m S	Unknown	Plantation on Ancient Woodland Site
Z	1375m NW	Unknown	Ancient Semi Natural Woodland
125	1395m NW	Unknown	Plantation on Ancient Woodland Site
126	1441m NW	Unknown	Restored Ancient Woodland Site
127	1446m NW	Unknown	Ancient Semi Natural Woodland
AA	1462m SE	Unknown	Ancient Semi Natural Woodland
Y	1462m N	Unknown	Restored Ancient Woodland Site
AB	1466m N	Unknown	Ancient Semi Natural Woodland
129	1469m W	Unknown	Ancient Semi Natural Woodland
AB	1469m N	Unknown	Ancient Semi Natural Woodland
Y	1470m N	Unknown	Restored Ancient Woodland Site
Y	1477m N	Unknown	Restored Ancient Woodland Site
130	1479m S	Unknown	Ancient Woodland Site of Unknown Category
AA	1479m SE	Unknown	Ancient Semi Natural Woodland
AC	1492m N	Unknown	Ancient Semi Natural Woodland
132	1509m S	Unknown	Plantation on Ancient Woodland Site
133	1511m W	Unknown	Plantation on Ancient Woodland Site
134	1511m S	Unknown	Plantation on Ancient Woodland Site
AD	1511m NW	Unknown	Plantation on Ancient Woodland Site

ID	Location	Name	Woodland Type
AB	1512m N	Unknown	Ancient Semi Natural Woodland
135	1513m N	Unknown	Ancient Semi Natural Woodland
136	1520m NW	Unknown	Restored Ancient Woodland Site
137	1522m S	Unknown	Ancient Woodland Site of Unknown Category
138	1524m W	Unknown	Plantation on Ancient Woodland Site
139	1538m S	Unknown	Plantation on Ancient Woodland Site
140	1538m W	Unknown	Plantation on Ancient Woodland Site
141	1538m S	Unknown	Restored Ancient Woodland Site
142	1539m N	Unknown	Ancient Semi Natural Woodland
143	1544m S	Unknown	Plantation on Ancient Woodland Site
Y	1545m N	Unknown	Plantation on Ancient Woodland Site
AE	1546m N	Unknown	Restored Ancient Woodland Site
AF	1550m S	Unknown	Ancient Woodland Site of Unknown Category
144	1555m N	Unknown	Ancient Semi Natural Woodland
145	1561m SE	Unknown	Ancient Semi Natural Woodland
146	1561m W	Unknown	Restored Ancient Woodland Site
147	1563m SE	Unknown	Ancient Semi Natural Woodland
X	1568m S	Unknown	Ancient Woodland Site of Unknown Category
148	1576m SE	Unknown	Ancient Semi Natural Woodland
149	1579m NW	Unknown	Plantation on Ancient Woodland Site
AF	1590m S	Unknown	Plantation on Ancient Woodland Site
150	1592m SW	Unknown	Ancient Woodland Site of Unknown Category
151	1596m SE	Unknown	Ancient Semi Natural Woodland
AE	1599m N	Unknown	Restored Ancient Woodland Site
152	1610m SE	Unknown	Ancient Semi Natural Woodland
AD	1618m NW	Unknown	Ancient Semi Natural Woodland
AG	1624m NW	Unknown	Ancient Semi Natural Woodland
153	1627m E	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
154	1632m N	Unknown	Ancient Semi Natural Woodland
AF	1634m S	Unknown	Ancient Woodland Site of Unknown Category
-	1639m N	Unknown	Plantation on Ancient Woodland Site
155	1643m SW	Unknown	Plantation on Ancient Woodland Site
-	1644m N	Unknown	Plantation on Ancient Woodland Site
AG	1649m W	Unknown	Restored Ancient Woodland Site
AI	1652m SW	Unknown	Plantation on Ancient Woodland Site
AI	1655m SW	Unknown	Ancient Semi Natural Woodland
157	1659m N	Unknown	Restored Ancient Woodland Site
158	1662m SW	Unknown	Restored Ancient Woodland Site
-	1669m N	Unknown	Plantation on Ancient Woodland Site
159	1678m SE	Unknown	Ancient Semi Natural Woodland
160	1687m SW	Unknown	Restored Ancient Woodland Site
-	1709m E	Unknown	Ancient Semi Natural Woodland
162	1712m NW	Unknown	Ancient Semi Natural Woodland
-	1725m E	Unknown	Ancient Woodland Site of Unknown Category
-	1730m N	Unknown	Ancient Semi Natural Woodland
AK	1737m SW	Unknown	Plantation on Ancient Woodland Site
164	1738m SE	Unknown	Ancient Semi Natural Woodland
-	1738m N	Unknown	Ancient Woodland Site of Unknown Category
AL	1748m SW	Unknown	Plantation on Ancient Woodland Site
165	1756m SW	Unknown	Ancient Semi Natural Woodland
166	1763m SW	Unknown	Restored Ancient Woodland Site
167	1767m SW	Unknown	Plantation on Ancient Woodland Site
-	1770m N	Unknown	Ancient Semi Natural Woodland
AD	1771m NW	Unknown	Restored Ancient Woodland Site
-	1771m E	Unknown	Ancient Semi Natural Woodland
170	1772m SE	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
AL	1773m SW	Unknown	Ancient Woodland Site of Unknown Category
171	1781m SW	Unknown	Restored Ancient Woodland Site
172	1783m SE	Unknown	Ancient Semi Natural Woodland
AK	1790m SW	Unknown	Plantation on Ancient Woodland Site
173	1818m SW	Unknown	Ancient Woodland Site of Unknown Category
-	1821m N	Unknown	Ancient Semi Natural Woodland
AN	1822m SW	Unknown	Restored Ancient Woodland Site
174	1827m SE	Unknown	Plantation on Ancient Woodland Site
-	1828m N	Unknown	Ancient Woodland Site of Unknown Category
AL	1838m SW	Unknown	Plantation on Ancient Woodland Site
AN	1844m SW	Unknown	Restored Ancient Woodland Site
175	1848m S	Unknown	Ancient Semi Natural Woodland
-	1854m N	Unknown	Ancient Semi Natural Woodland
176	1855m SW	Unknown	Restored Ancient Woodland Site
-	1861m E	Unknown	Ancient Semi Natural Woodland
-	1876m N	Unknown	Plantation on Ancient Woodland Site
178	1881m SE	Unknown	Ancient Semi Natural Woodland
179	1881m SE	Unknown	Ancient Semi Natural Woodland
180	1893m SW	Unknown	Plantation on Ancient Woodland Site
181	1896m SE	Unknown	Ancient Semi Natural Woodland
-	1899m E	Unknown	Ancient Semi Natural Woodland
183	1903m S	Unknown	Plantation on Ancient Woodland Site
-	1904m S	Unknown	Plantation on Ancient Woodland Site
185	1909m SW	Unknown	Restored Ancient Woodland Site
-	1913m N	Unknown	Ancient Semi Natural Woodland
186	1914m NW	Unknown	Restored Ancient Woodland Site
-	1924m E	Unknown	Ancient Semi Natural Woodland
188	1927m SE	Unknown	Ancient Semi Natural Woodland

ID	Location	Name	Woodland Type
-	1950m N	Unknown	Ancient Semi Natural Woodland
189	1952m SW	Unknown	Ancient Semi Natural Woodland
190	1957m SE	Unknown	Ancient Semi Natural Woodland
191	1958m NE	Unknown	Ancient Semi Natural Woodland
-	1964m N	Unknown	Plantation on Ancient Woodland Site
-	1976m N	Unknown	Restored Ancient Woodland Site
AP	1976m SE	Unknown	Ancient Semi Natural Woodland
194	1983m NW	Unknown	Ancient Semi Natural Woodland
-	1985m N	Unknown	Ancient Woodland Site of Unknown Category
-	1990m S	Unknown	Ancient Woodland Site of Unknown Category
-	1995m S	Unknown	Plantation on Ancient Woodland Site
AP	1996m SE	Unknown	Ancient Semi Natural Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or ‘classified’) under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m	0

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site	0

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

This data is sourced from Natural England.

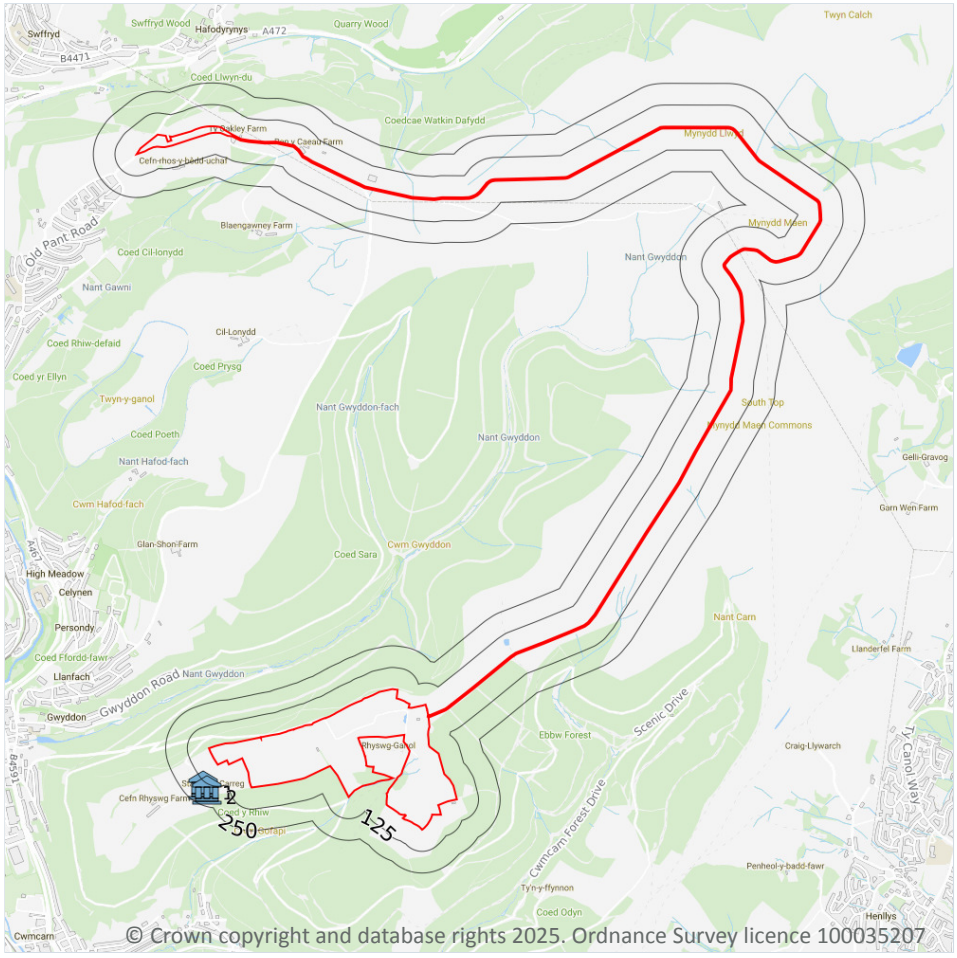
10.18 SSSI Units

Records within 2000m	0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



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- Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	2

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 92 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	145m SW	Rhyswg Fawr Farmhouse And Walled Forecourt, High On The Mountain Reached By A Long Lane And Track Rising From The Se End Of Abercarn Village, On The S Side Of The Gwyddon Valley.	II	1900	27/01/1982
2	157m SW	Barn At Rhyswg Fawr, Close To And On The Same Axis As The Farmhouse But Separated From It By A Deep Well; Set Into The Slope A Little Downhill.	II	20998	17/12/1998

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

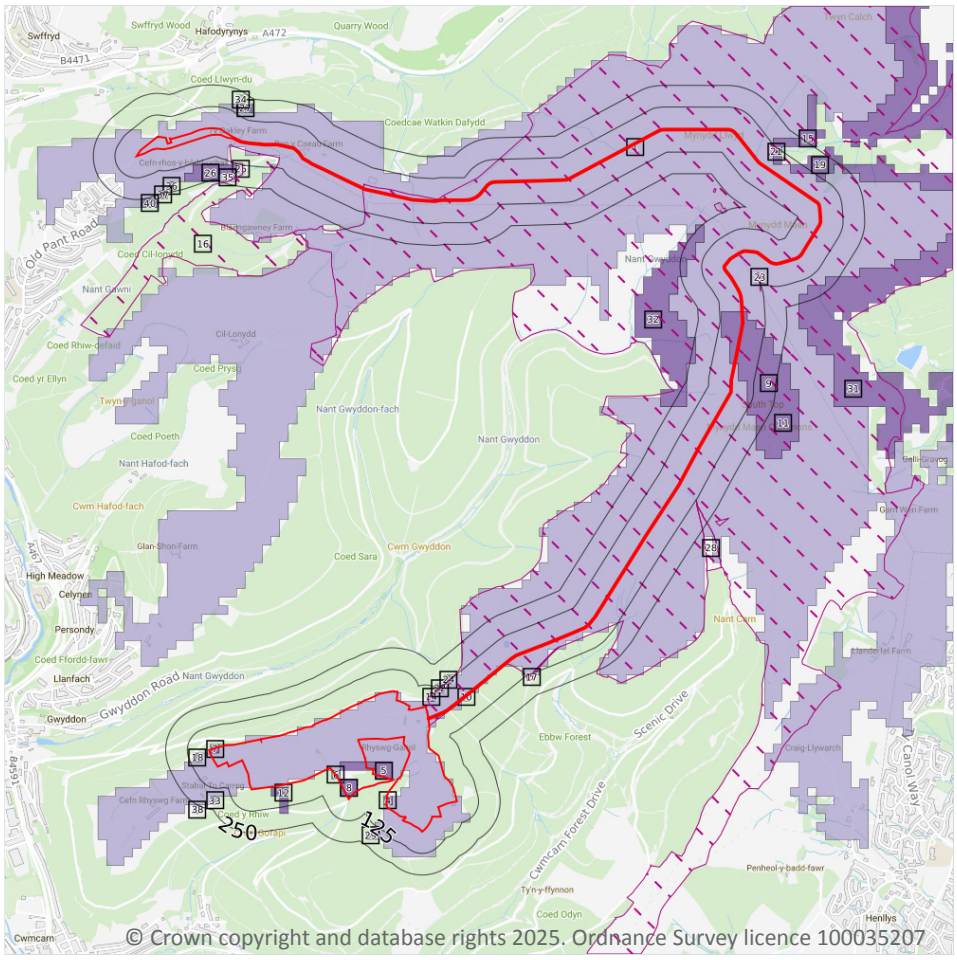
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m	27

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 95 >**

ID	Location	Classification	Description
1	**On site**	**Grade 4**	**Poor quality agricultural land**
4	**On site**	**Grade 5**	**Very poor quality agricultural land**
5	**On site**	**Grade 5**	**Very poor quality agricultural land**

ID	Location	Classification	Description
6	**On site**	**Grade 5**	**Very poor quality agricultural land**
7	**On site**	**Grade 5**	**Very poor quality agricultural land**
8	**On site**	**Grade 5**	**Very poor quality agricultural land**
9	**On site**	**Grade 5**	**Very poor quality agricultural land**
12	5m S	Grade 5	Very poor quality agricultural land
14	33m N	Grade 5	Very poor quality agricultural land
15	34m NE	Grade 5	Very poor quality agricultural land
18	44m W	Grade 5	Very poor quality agricultural land
19	49m NE	Grade 5	Very poor quality agricultural land
22	87m NW	Grade 5	Very poor quality agricultural land
24	96m NW	Grade 5	Very poor quality agricultural land
25	119m S	Grade 4	Poor quality agricultural land
26	128m S	Grade 5	Very poor quality agricultural land
27	131m NE	Grade 5	Very poor quality agricultural land
29	153m SW	Grade 5	Very poor quality agricultural land
31	166m SE	Grade 5	Very poor quality agricultural land
32	167m W	Grade 5	Very poor quality agricultural land
33	171m S	Grade 5	Very poor quality agricultural land
34	172m NE	Grade 4	Poor quality agricultural land
35	177m S	Grade 4	Poor quality agricultural land
36	188m S	Grade 5	Very poor quality agricultural land
37	228m S	Grade 5	Very poor quality agricultural land
38	240m SW	Grade 5	Very poor quality agricultural land
40	248m S	Grade 5	Very poor quality agricultural land

This data is sourced from Natural Resources Wales.

12.2 Open Access Land

Records within 250m	7

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

Features are displayed on the Agricultural designations map on **page 95 >**

ID	Location	Name	Classification	Other relevant legislation
10	**On site**	**-**	**Open Access Open Country**	**-**
11	**On site**	**-**	**Open Access Other Statutory Access Land**	**-**
16	34m S	-	NRW Public Forest 2014	-
17	41m S	-	Open Access Open Country	-
21	69m NE	-	Open Access Open Country	-
23	89m SW	-	Open Access Open Country	-
28	132m SE	-	Open Access Open Country	-

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m	0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m	0

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

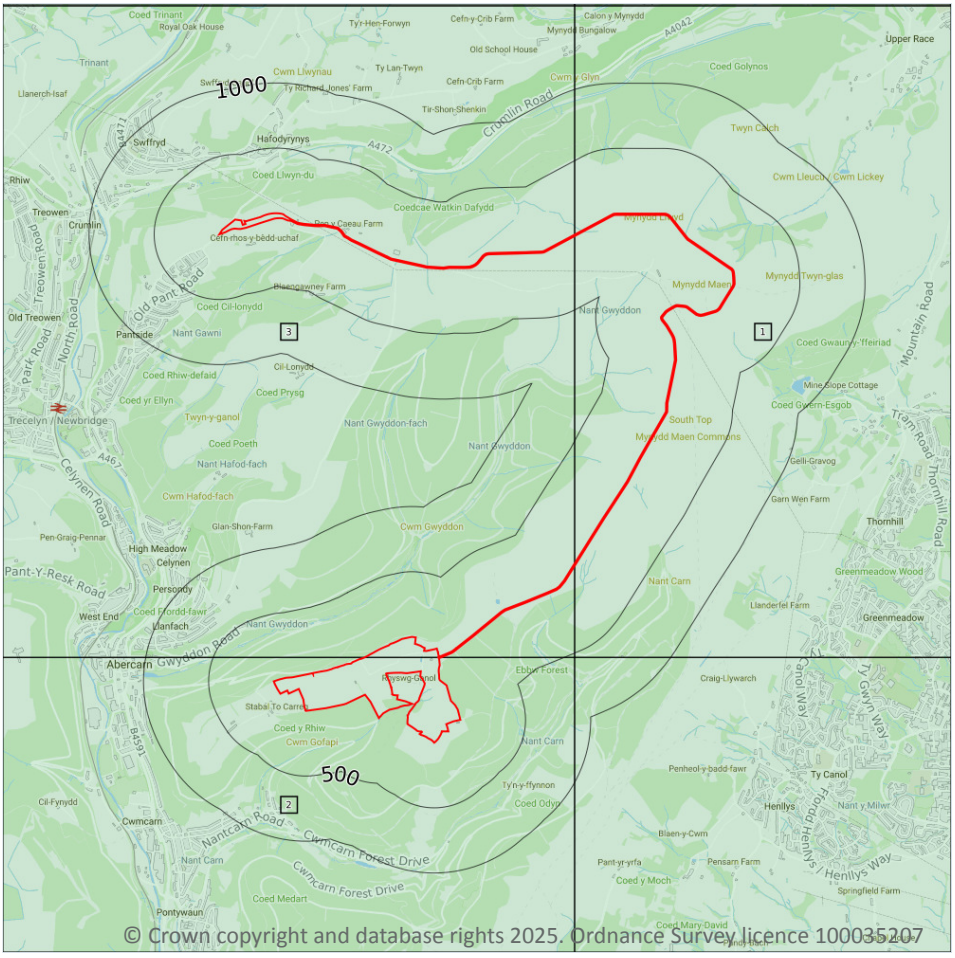
13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



14.1 10k Availability

Records within 500m	3

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 100 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	ST29NE
2	On site	No coverage	Full	Full	Full	ST29SW
3	On site	Full	Full	Full	Full	ST29NW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground

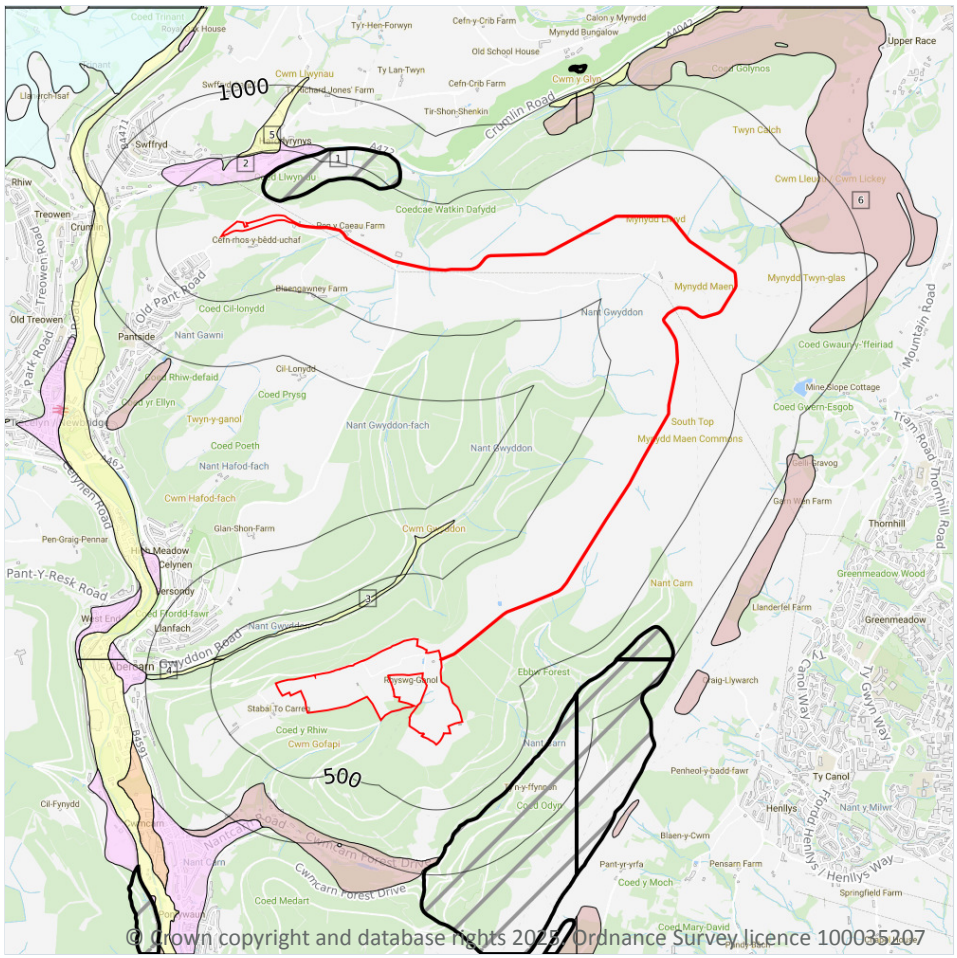
14.2 Artificial and made ground (10k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial


1000
500
Cromlin Road
Old Pant Road
Treowen Road
Park Road
Pant-Y-Resk Road
Mountain Road
Tram Road Thornhill Road
Cwmcarn Forest Drive
Henllys Way
Ty Canol Way
Ty Gwyn Way
Swffryd
Treowen
Old Treowen
Pantside
Thornhill
Henllys
Ty Canol
Springfield Farm
Pensarn Farm
Llanderfel Farm
Greenmeadow
Greenmeadow Wood
Mynydd Maen
Mynydd Twyn-glas
Nant Gwyddon
Nant Gwyddon-fach
Coed Prysg
Coed Poeth
Coed Cil-lonydd
Coed Rhiw-defaid
Coed Gwaun-y-ffeiriad
Coed Gwern-Esgob
Cwm Hafod-fach
Nant Hafod-fach
Nant Carn
Ebbw Forest
Coed Medart
Coed Mary David
Craig-Llywarch
Penheol-y-badd-fawr
Nant y Milwr
Blaen-y-Cwm
Pant-yr-yrfa
Coed y Moch
Coed Odyn
Cwm Gofapi
Coed y Rhiw
Cil-Fynydd
Pen-Graig-Pennar
Glan-Shon-Farm
Tir-Shon-Shenkin
Cefn-Crib Farm
Ty Lan-Twyn
Twyn Calch
Upper Race
Mine Slope Cottage
Nant Gwawni
Cil-Lonydd
Twyn-y-ganol
Nant Gwyddon Road
Rhyswg-Gwnol
Stabal To Carre
Coed Llwynau
Cwm Llwynau
Coedcae Watkin Dafydd
Cefn-rhos-y-bedd-uchaf
Bluegowney Farm
Mynydd Maen Commons
South Top
Cwm Lleuar
Cwm Lickey
Cwm y Glyn
Coed Tollynos
Mynydd Bungalow
Old School House
Richard Jones' Farm
Ty-Hen-Forwyn
Calon y Mynydd
Cefn-y-Crib Farm
Rhiw
Llanfach
Celynen
Meadow
Jersondy
Ffordd-fawr
Nant Gwyddon
Nant Carn
Coed Llwynau
Pen y Caeau Farm
Mynydd Llwyd
Coed Cil-lonydd
Nant Gwawni
Coed Rhiw-defaid
Coed yr Ellyn
Twyn-y-ganol
Coed Poeth
Nant Hafod-fach
Cwm Hafod-fach
Glan-Shon-Farm
Cwm Gwyddon
Pen-Graig-Pennar
Cil-Fynydd
Coed Odyn
Coed y Rhiw
Cwm Gofapi
Stabal To Carre
Rhyswg-Gwnol
Ebbw Forest
Craig-Llywarch
Nant Carn
Penheol-y-badd-fawr
Nant y Milwr
Blaen-y-Cwm
Pant-yr-yrfa
Coed y Moch
Coed Medart
Coed Mary David
Springfield Farm
Pensarn Farm
Llanderfel Farm
Greenmeadow
Greenmeadow Wood
Thornhill
Mine Slope Cottage
Coed Gwern-Esgob
Coed Gwaun-y-ffeiriad
Mynydd Maen
Mynydd Twyn-glas
Nant Gwyddon
Nant Gwyddon-fach
Coed Prysg
Coed Poeth
Coed Cil-lonydd
Coed Rhiw-defaid
Coed yr Ellyn
Twyn-y-ganol
Nant Gwawni
Cil-Lonydd

ID	Location	LEX Code	Description	Rock description
6	483m NE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**1**

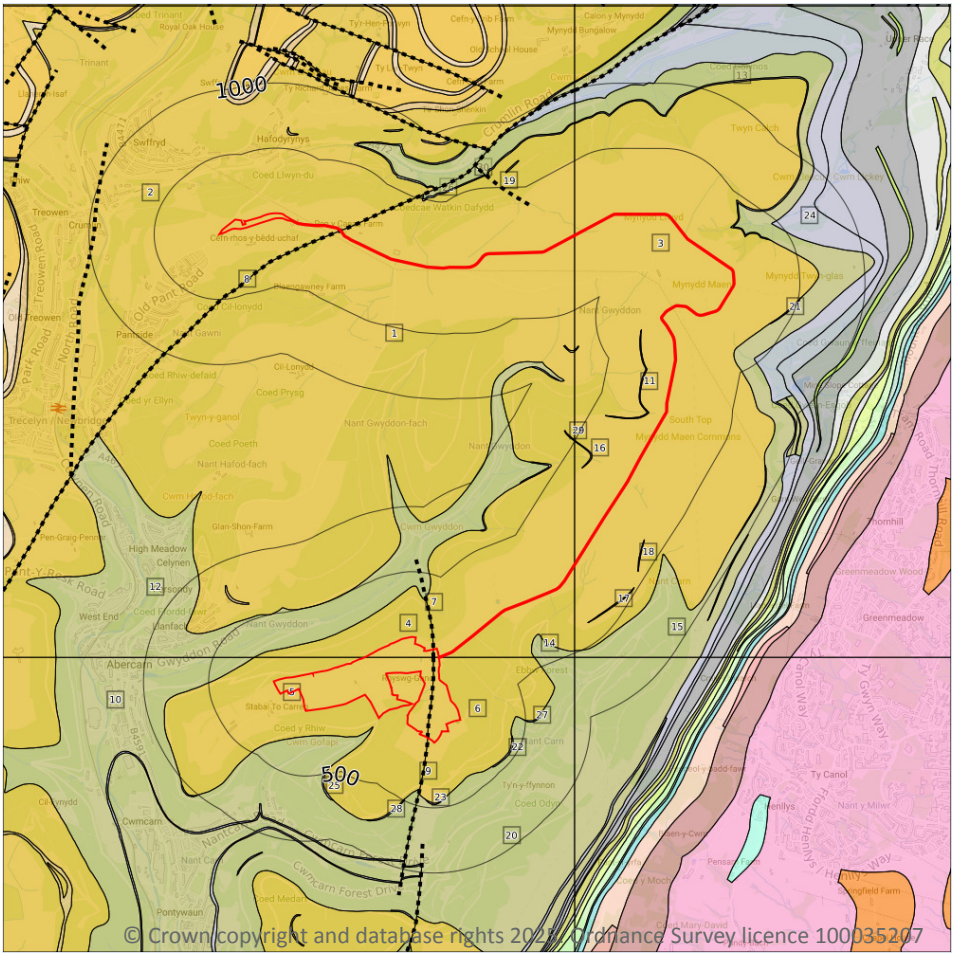
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 102 >**

ID	Location	LEX Code	Description	Rock description
1	110m N	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m	26

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 104 >**

ID	Location	LEX Code	Description	Rock age
1	On site	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
2	On site	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
3	On site	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age
4	On site	H-SDST	Hughes Member - Sandstone	Westphalian D Sub-age

ID	Location	LEX Code	Description	Rock age
5	**On site**	**H-SDST**	**Hughes Member - Sandstone**	**Westphalian D Sub-age**
6	**On site**	**H-SDST**	**Hughes Member - Sandstone**	**Westphalian D Sub-age**
10	84m SW	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
11	110m NW	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
12	226m N	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
13	257m NE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
14	260m S	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
15	272m NE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
16	322m NW	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
17	346m SE	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
18	347m SE	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
20	363m SE	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age
21	385m SE	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
22	408m E	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
23	438m S	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
24	460m NE	DER-MDSS	Deri Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
25	473m S	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
26	484m N	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
27	487m E	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
28	490m SW	BD-MDSS	Brithdir Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
29	500m NW	H-MDSS	Hughes Member - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
30	500m N	BD-SDST	Brithdir Member - Sandstone	Westphalian D Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**4**

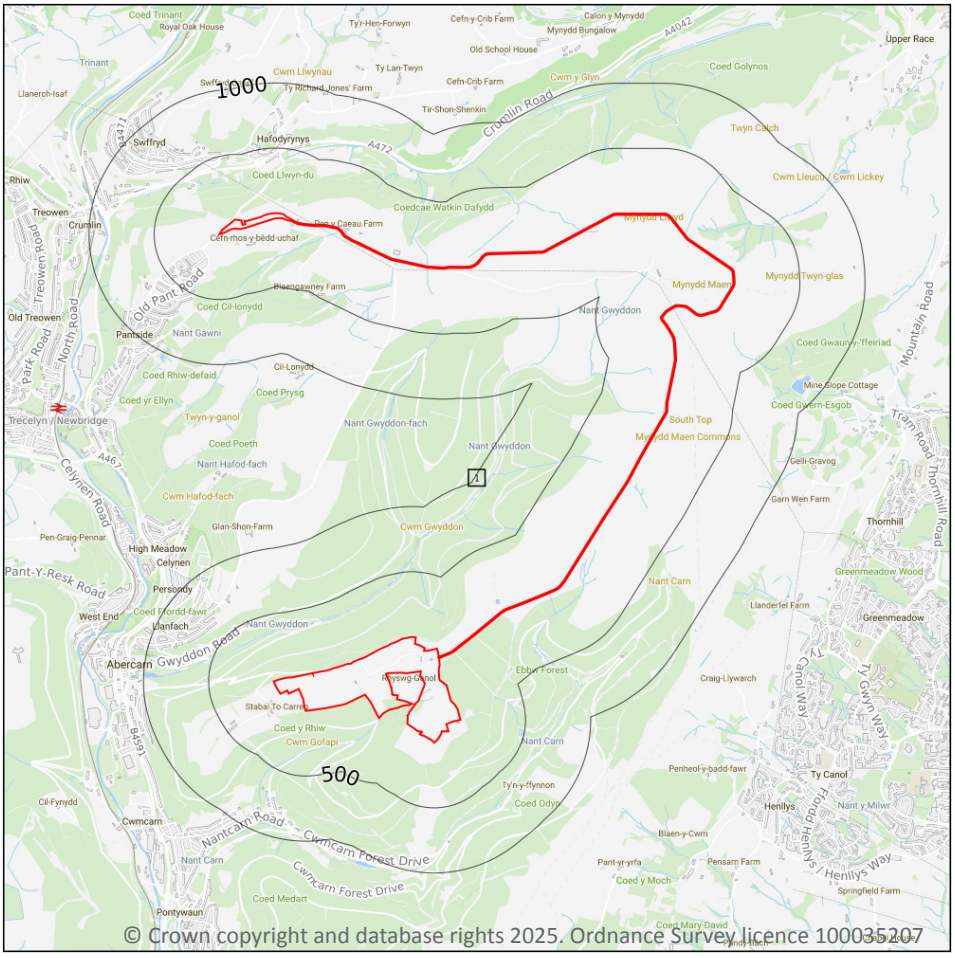
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 104 >**

ID	Location	Category	Description
7	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
8	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
9	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
19	362m N	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme. Where 50k data is not available, this area has been filled in with 625k scale data.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 107 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW249_newport_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m	0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

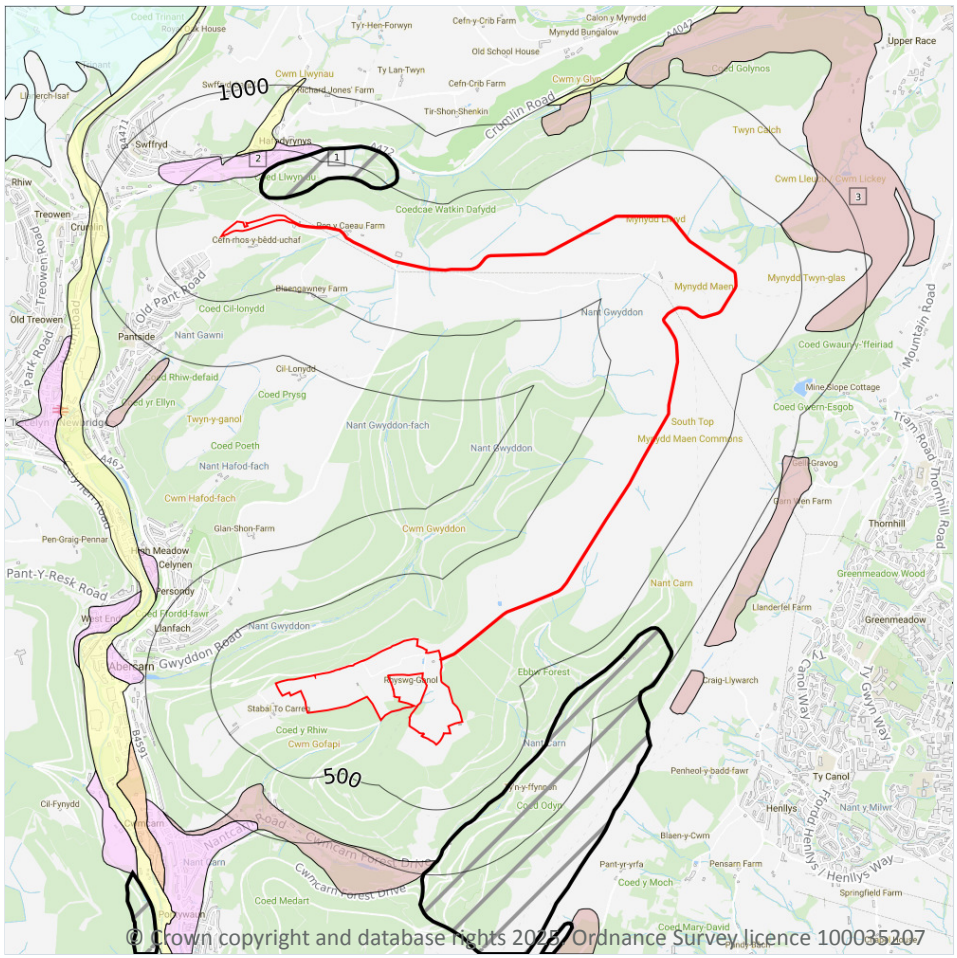
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m	2

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 109 >**

ID	Location	LEX Code	Description	Rock description
2	324m N	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	486m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	1

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 109 >**

ID	Location	LEX Code	Description	Rock description
1	132m N	SLIP-SDST	LANDSLIDE DEPOSITS	SANDSTONE

This data is sourced from the British Geological Survey.

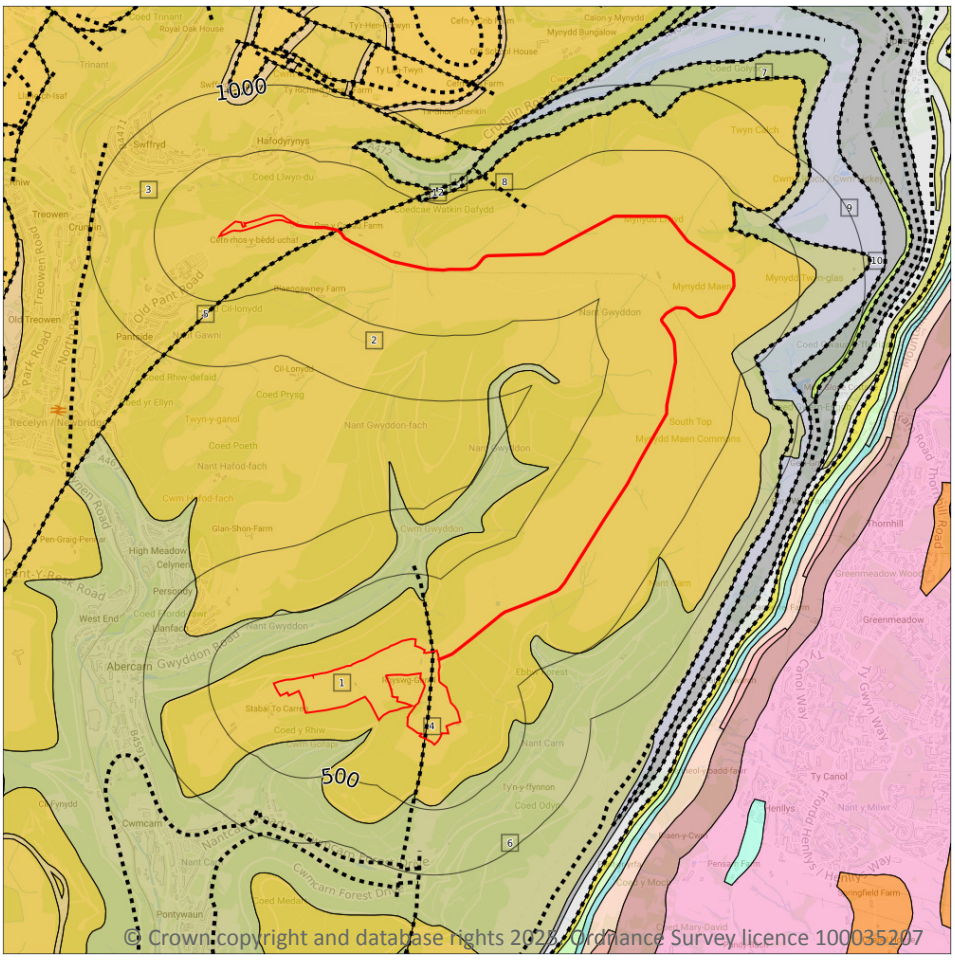
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m **6**

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 111 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**H-SDST**	**HUGHES MEMBER - SANDSTONE**	**WESTPHALIAN**
2	**On site**	**H-SDST**	**HUGHES MEMBER - SANDSTONE**	**WESTPHALIAN**
3	**On site**	**H-SDST**	**HUGHES MEMBER - SANDSTONE**	**WESTPHALIAN**
6	87m SW	RA-SDST	RHONDDA MEMBER - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
9	447m SE	DER-MDSS	DERI FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	489m N	BD-SDST	BRITHDIR MEMBER - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**High**	**Moderate**
On site	**Fracture**	**High**	**Moderate**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**6**

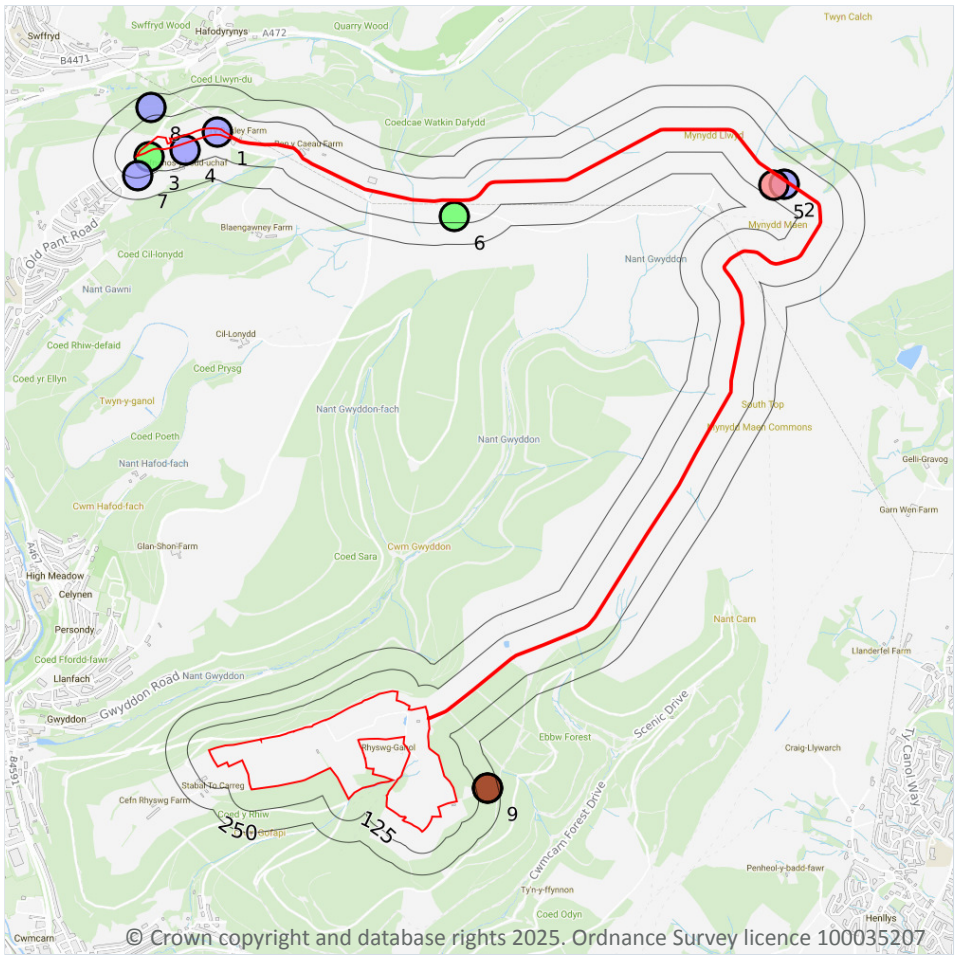
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 111 >**

ID	Location	Category	Description
4	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
5	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
7	252m NE	ROCK	Coal seam, inferred
8	359m N	FAULT	Fault, inferred, displacement unknown
10	447m SE	ROCK	Coal seam, inferred
12	489m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	9

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

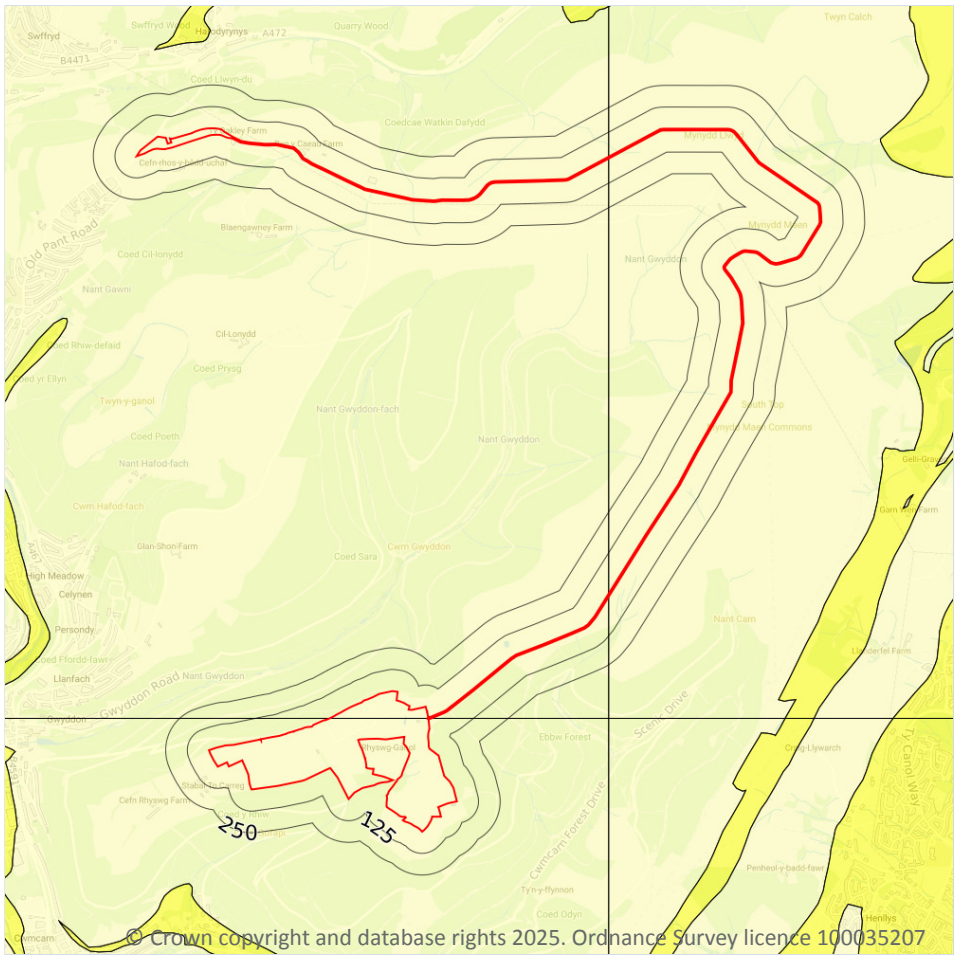
Features are displayed on the Boreholes map on **page 113 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**322739 198384**	**CELYNEN NORTH COLLIERY, 11 & 11A UP**	**9.75**	**N**	**384087** ↗
2	13m SW	326016 198086	HAFODYRYNYS COLLIERY, 2	6.4	N	383850 ↗
3	28m SE	322346 198245	CELYNEN NORTH COLLIERY, 2 UP	26.82	N	384075 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
4	37m S	322555 198284	CELYNEN NORTH COLLIERY, 10 & 10A UP	9.45	N	384086 ↗
5	54m SW	325954 198079	HAFODYRYNYS COLLIERY, 5	63.25	N	383849 ↗
6	89m S	324110 197899	YSGUBOR WEN 10	18.24	N	384112 ↗
7	112m S	322279 198135	CELYNEN NORTH COLLIERY, 13 & 13A UP	9.45	N	384089 ↗
8	174m N	322354 198529	CELYNEN NORTH COLLIERY, 12 & 12A UP	8.53	N	384088 ↗
9	191m E	324300 194600	NANTCARN	-1.0	N	384540 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	1

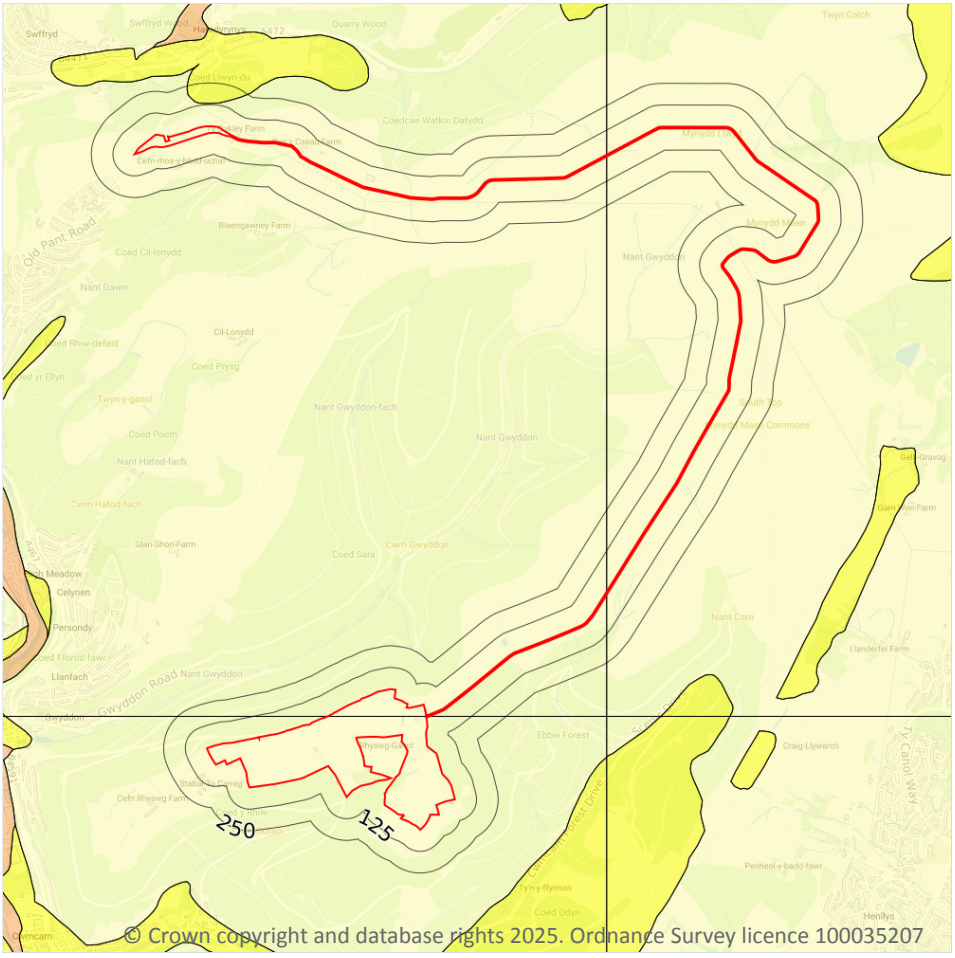
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 115 >**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

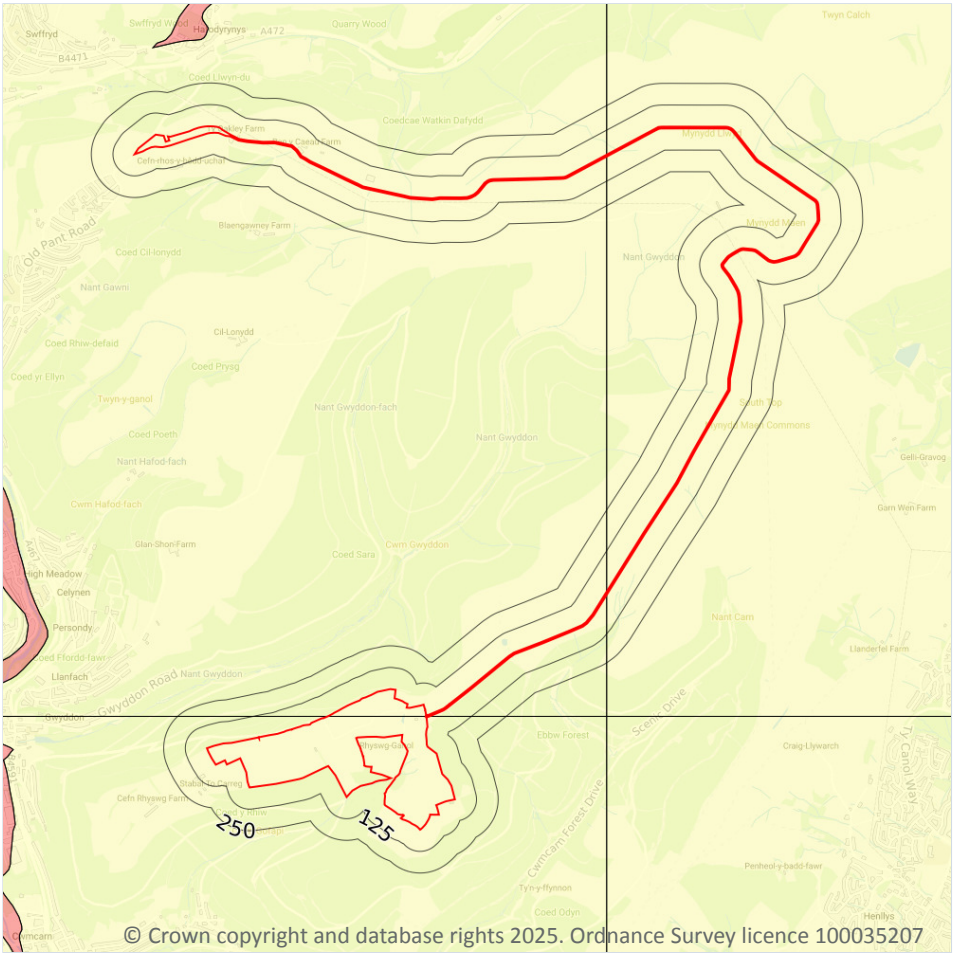
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 116 >**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

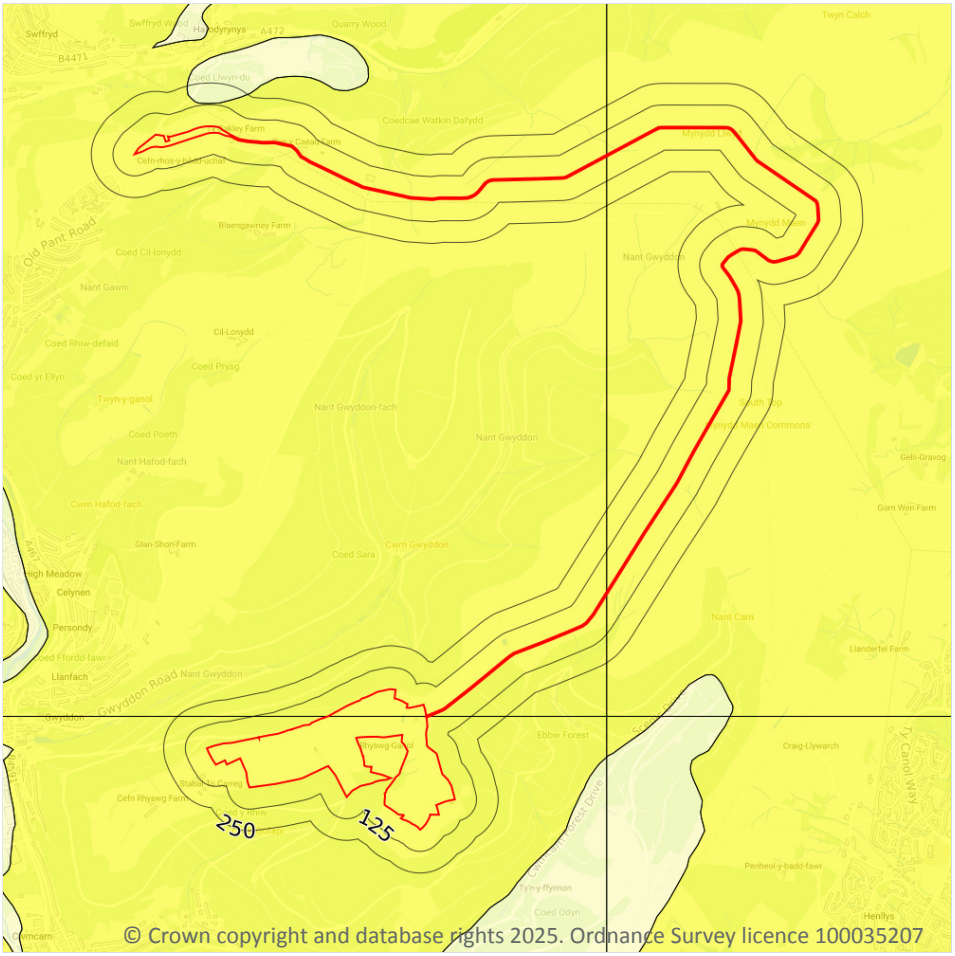
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 117 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

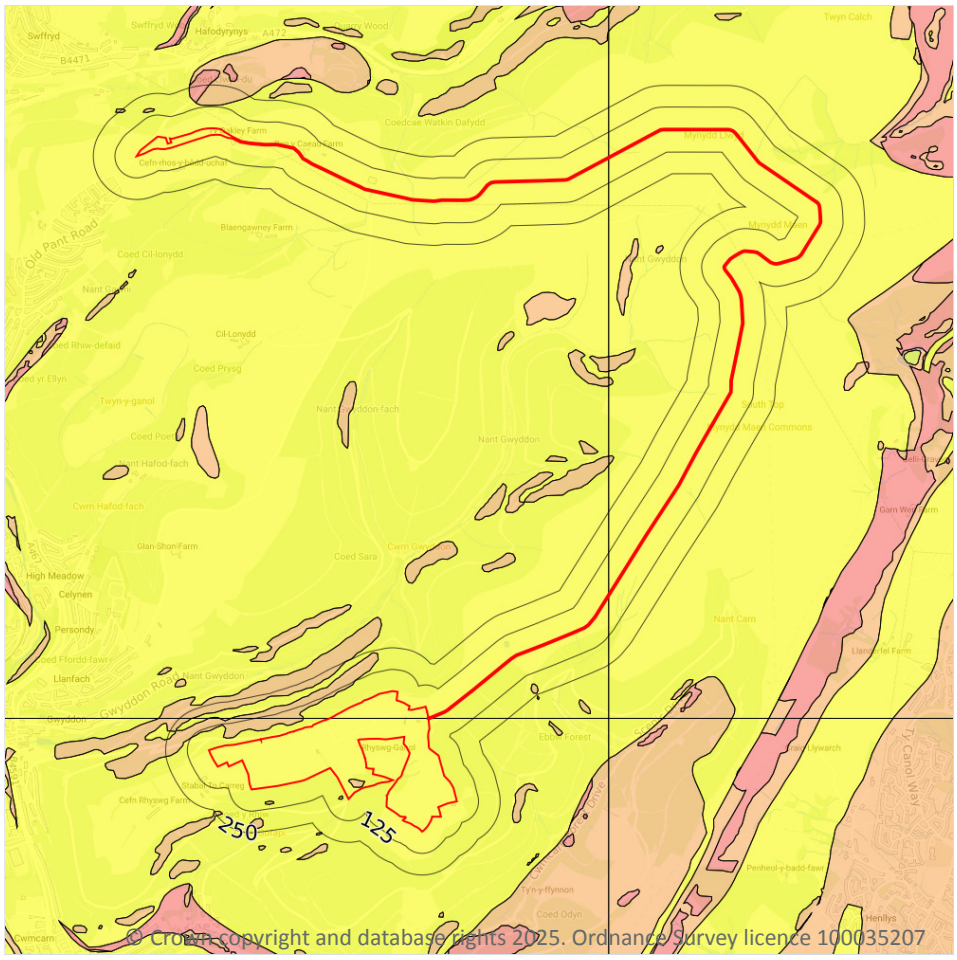
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 118 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	4

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

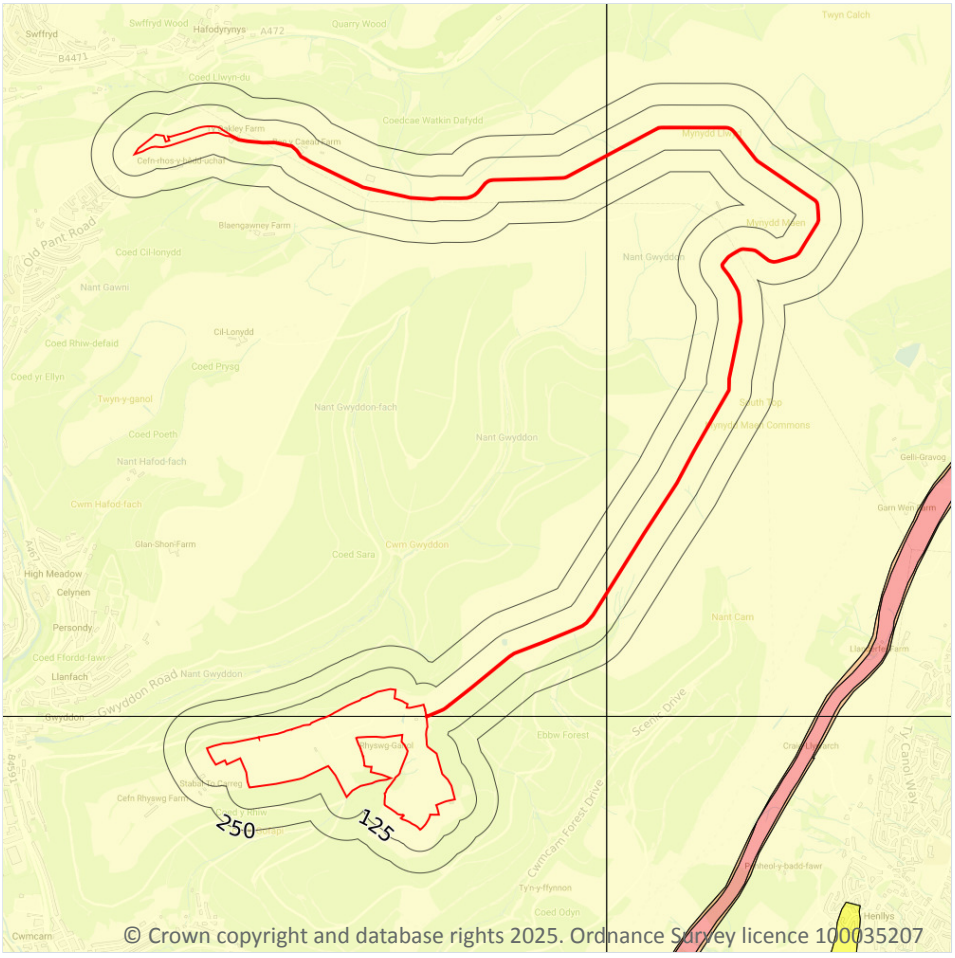
Features are displayed on the Natural ground subsidence - Landslides map on **page 119 >**

Location	Hazard rating	Details
On site	**Very low**	**Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
25m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
41m N	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

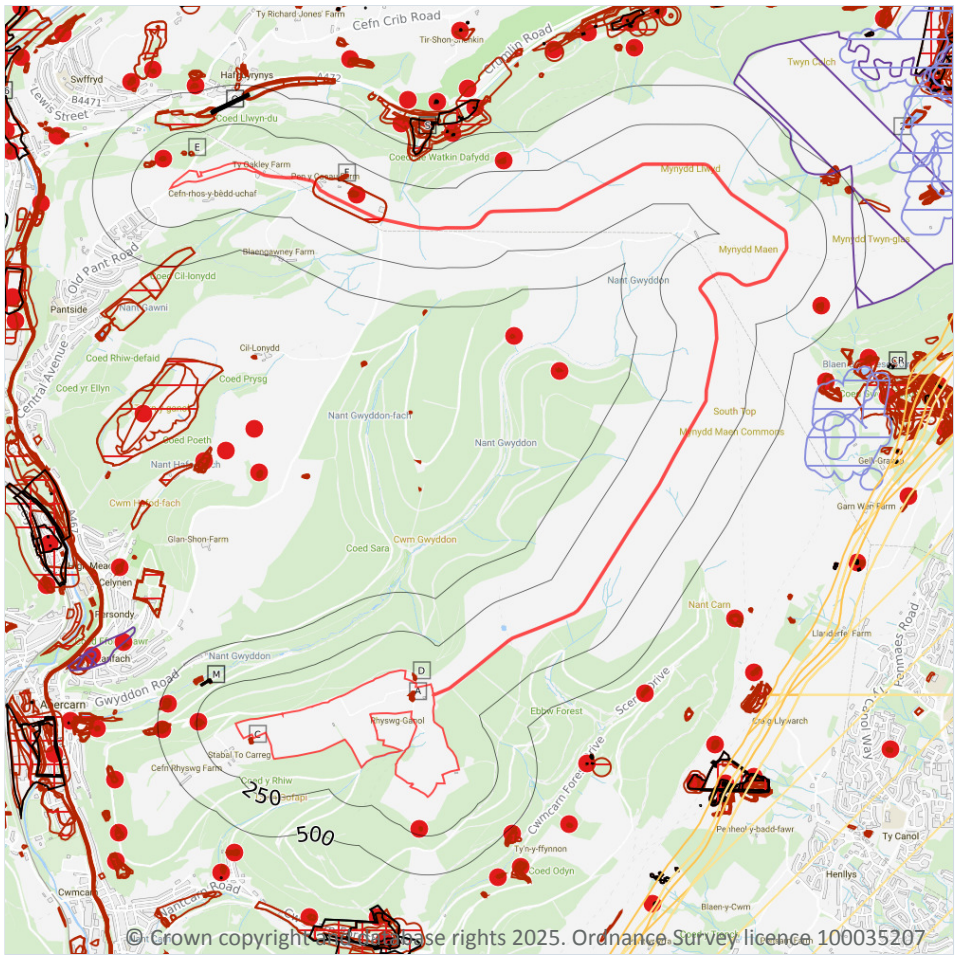
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 121 >**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	11

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on **page 123 >**

ID	Location	Details	Description
B	77m NE	Name: Pen-y-caeau Address: Crumlin, NEWBRIDGE, Caerphilly Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
G	163m NW	Name: Coed Llwyn-du Address: Crumlin, NEWBRIDGE, Caerphilly Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
H	183m NW	Name: Coed Llwyn-du Address: Crumlin, NEWBRIDGE, Caerphilly Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
I	212m S	Name: Pen-y-pant Address: Cwmcarn, RISCA, Gwent Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
J	240m W	Name: Cwm Gwyddon Quarries Address: ABERCARN, Caerphilly Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
L	322m N	Name: Coed Watkin Dafydd Address: Crumlin, NEWBRIDGE, Caerphilly Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
P	372m SE	Name: Blaen-bran Address: CWMBRAN, Torfaen Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
4	429m N	Name: Coedcae Watkin Dayydd Drift Address: Hafodyrynys, NEWBRIDGE, Gwent Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit, drift or incline. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun' Ee' - Scots). May also be locally termed `Quarry' or `Underground Quarry' when referring to sites extracting building stone (e.g. in Dorset and Wiltshire). The location given is that of the mine entrance and may be approximate for older sites shown on contemporaneous mapping by the Geological Survey used as the source document. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
X	450m W	Name: Cwm Gwyddon Quarries Address: ABERCARN, Caerphilly Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
X	451m W	Name: Cwm Gwyddon Quarries Address: ABERCARN, Gwent Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
W	470m W	Name: Cwm Gwyddon Quarries Address: ABERCARN, Gwent Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **52**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on **page 123 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Pond**	**1922**	**1:10560**
A	**On site**	**Pond**	**1948**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Pond**	**1899**	**1:10560**
A	**On site**	**Pond**	**1981**	**1:10000**
A	**On site**	**Pond**	**1989**	**1:10000**
A	**On site**	**Pond**	**1970**	**1:10000**
A	**On site**	**Pond**	**1963**	**1:10560**
A	**On site**	**Pond**	**1922**	**1:10560**
A	**On site**	**Pond**	**1881**	**1:10560**
B	**On site**	**Unspecified Disused Quarry**	**1981**	**1:10000**
B	**On site**	**Unspecified Disused Quarry**	**1989**	**1:10000**
C	9m SW	Pond	1881	1:10560
C	11m SW	Pond	1970	1:10000
C	11m SW	Pond	1963	1:10560
D	16m NE	Unspecified Ground Workings	1981	1:10000
D	16m NE	Unspecified Ground Workings	1989	1:10000
B	48m NE	Unspecified Old Quarry	1938	1:10560
B	51m NE	Unspecified Old Quarry	1949	1:10560
B	52m NE	Unspecified Old Quarry	1922	1:10560
B	62m NE	Refuse Heap	1949	1:10560
B	67m NE	Unspecified Old Quarry	1899	1:10560
E	96m N	Unspecified Heap	1965	1:10560
E	100m N	Unspecified Pit	1879	1:10560
E	104m N	Unspecified Pit	1879	1:10560
E	106m N	Unspecified Heap	1965	1:10560
F	109m NE	Pond	1938	1:10560
F	116m NE	Pond	1899	1:10560
F	116m NE	Pond	1949	1:10560
F	119m NE	Pond	1922	1:10560
F	119m NE	Pond	1881	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
F	121m NE	Pond	1981	1:10000
F	121m NE	Pond	1965	1:10560
F	121m NE	Pond	1989	1:10000
G	150m NW	Unspecified Quarry	1879	1:10560
G	154m NW	Unspecified Old Quarry	1922	1:10560
G	155m NW	Unspecified Old Quarry	1948	1:10560
G	156m NW	Unspecified Old Quarry	1899	1:10560
G	156m NW	Unspecified Old Quarry	1938	1:10560
H	172m NW	Unspecified Quarry	1922	1:10560
H	174m NW	Unspecified Disused Quarry	1981	1:10000
H	174m NW	Unspecified Quarry	1965	1:10560
H	174m NW	Unspecified Disused Quarry	1989	1:10000
H	176m NW	Unspecified Quarry	1938	1:10560
H	177m NW	Unspecified Quarry	1948	1:10560
I	198m S	Unspecified Quarry	1938	1:10560
J	201m W	Unspecified Old Quarry	1922	1:10560
I	204m S	Unspecified Quarry	1948	1:10560
I	205m S	Unspecified Quarry	1922	1:10560
J	209m W	Unspecified Old Quarry	1948	1:10560
J	212m W	Unspecified Old Quarry	1938	1:10560
J	213m W	Unspecified Ground Workings	1879	1:10560
J	215m W	Unspecified Old Quarry	1899	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**55**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining and ground workings map on **page 123 >**

ID	Location	Land Use	Year of mapping	Mapping scale
M	309m NW	Trial Level	1899	1:10560
M	310m NW	Trial Level	1922	1:10560
M	322m NW	Trial Level	1948	1:10560
O	338m N	Tunnel	1922	1:10560
O	340m N	Tunnel	1879	1:10560
O	342m N	Tunnel	1899	1:10560
O	349m N	Tunnel	1981	1:10000
O	349m N	Tunnel	1965	1:10560
O	349m N	Tunnel	1989	1:10000
O	351m N	Tunnel	1938	1:10560
T	408m N	Tunnel	1899	1:10560
T	408m N	Tunnel	1949	1:10560
T	414m N	Tunnel	1922	1:10560
T	414m N	Tunnel	1881	1:10560
S	445m N	Disused Colliery	1981	1:10000
AE	540m NW	Old Coal Level	1922	1:10560
AE	540m NW	Old Coal Level	1949	1:10560
AE	576m NW	Old Coal Level	1949	1:10560
AF	607m N	Colliery	1922	1:10560
AF	619m N	Unspecified Shafts	1949	1:10560
AF	621m N	Unspecified Shafts	1922	1:10560
AF	632m N	Unspecified Shafts	1949	1:10560
AO	668m N	Air Shaft	1899	1:10560
BC	766m SW	Unspecified Disused Mine	1970	1:10000
BC	766m SW	Unspecified Mine	1963	1:10560
BE	771m NW	Old Coal Level	1949	1:10560
BE	774m NW	Old Coal Level	1922	1:10560
BC	802m S	Colliery	1922	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
BN	818m E	Coal Level	1881	1:10560
AZ	830m SW	Old Coal Shaft	1899	1:10560
BN	845m E	Old Coal Level	1948	1:10560
BN	851m E	Old Coal Level	1899	1:10560
BP	876m N	Colliery	1922	1:10560
BP	879m N	Air Shaft	1899	1:10560
BP	883m N	Unspecified Level	1949	1:10560
BP	898m N	Air Shaft	1881	1:10560
BP	904m N	Coal Level	1881	1:10560
CE	909m NW	Coal Level	1949	1:10560
BP	916m N	Unspecified Level	1922	1:10560
CJ	925m N	Coal Level	1922	1:10560
CC	933m S	Coal Pit	1882	1:10560
36	936m W	Colliery	1922	1:10560
CR	948m SE	Air Shafts	1899	1:10560
CR	949m SE	Air Shaft	1881	1:10560
CV	962m N	Unspecified Level	1899	1:10560
CC	963m S	Unspecified Shaft	1882	1:10560
CR	967m SE	Air Shafts	1899	1:10560
CV	970m N	Unspecified Disused Shaft	1983	1:10000
CV	970m N	Unspecified Disused Shaft	1965	1:10560
CT	971m NW	Unspecified Disused Level	1981	1:10000
CV	972m N	Air Shaft	1949	1:10560
CR	973m SE	Air Shaft	1948	1:10560
CR	975m SE	Air Shaft	1922	1:10560
CV	978m N	Coal Level	1881	1:10560
CV	978m N	Air Shaft	1922	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	1

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining and ground workings map on **page 123 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
2	384m NE	Blaendare	Not available	Not available	Not available	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

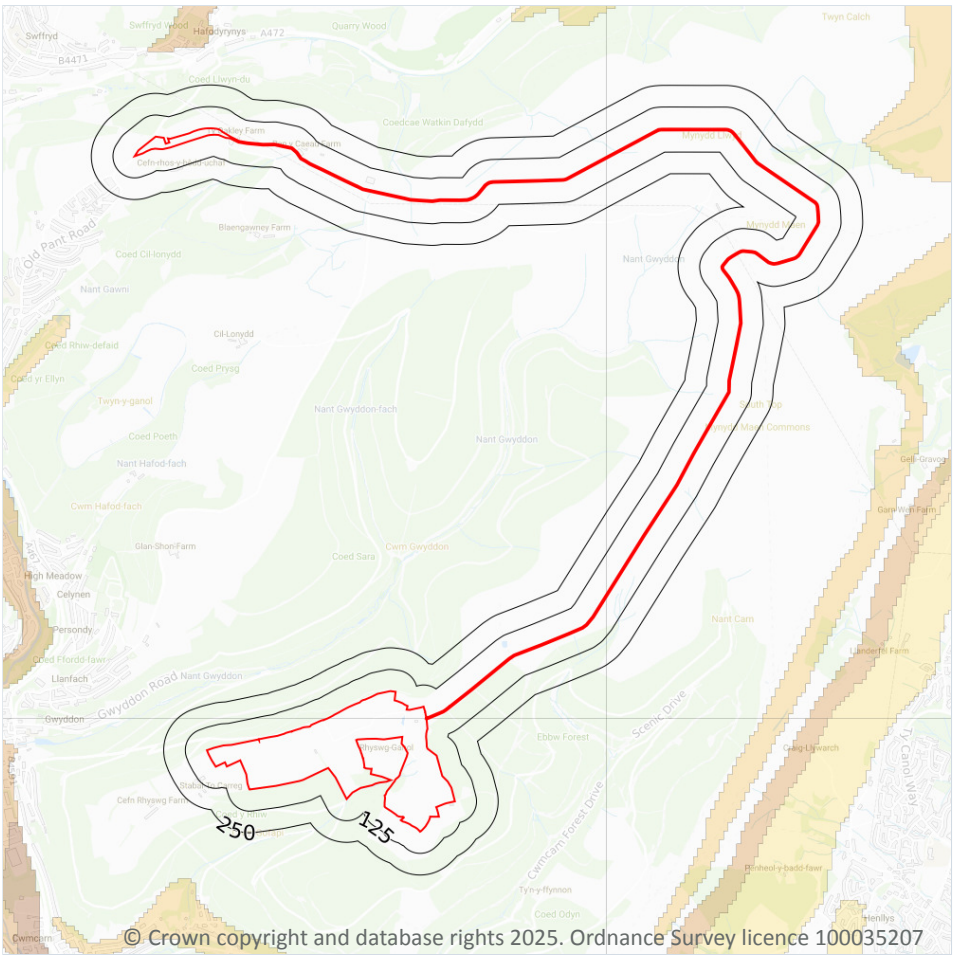
Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

20 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

20.1 Radon

Records on site	1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 136 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **44**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
7m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
7m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m S	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city

between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.9 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

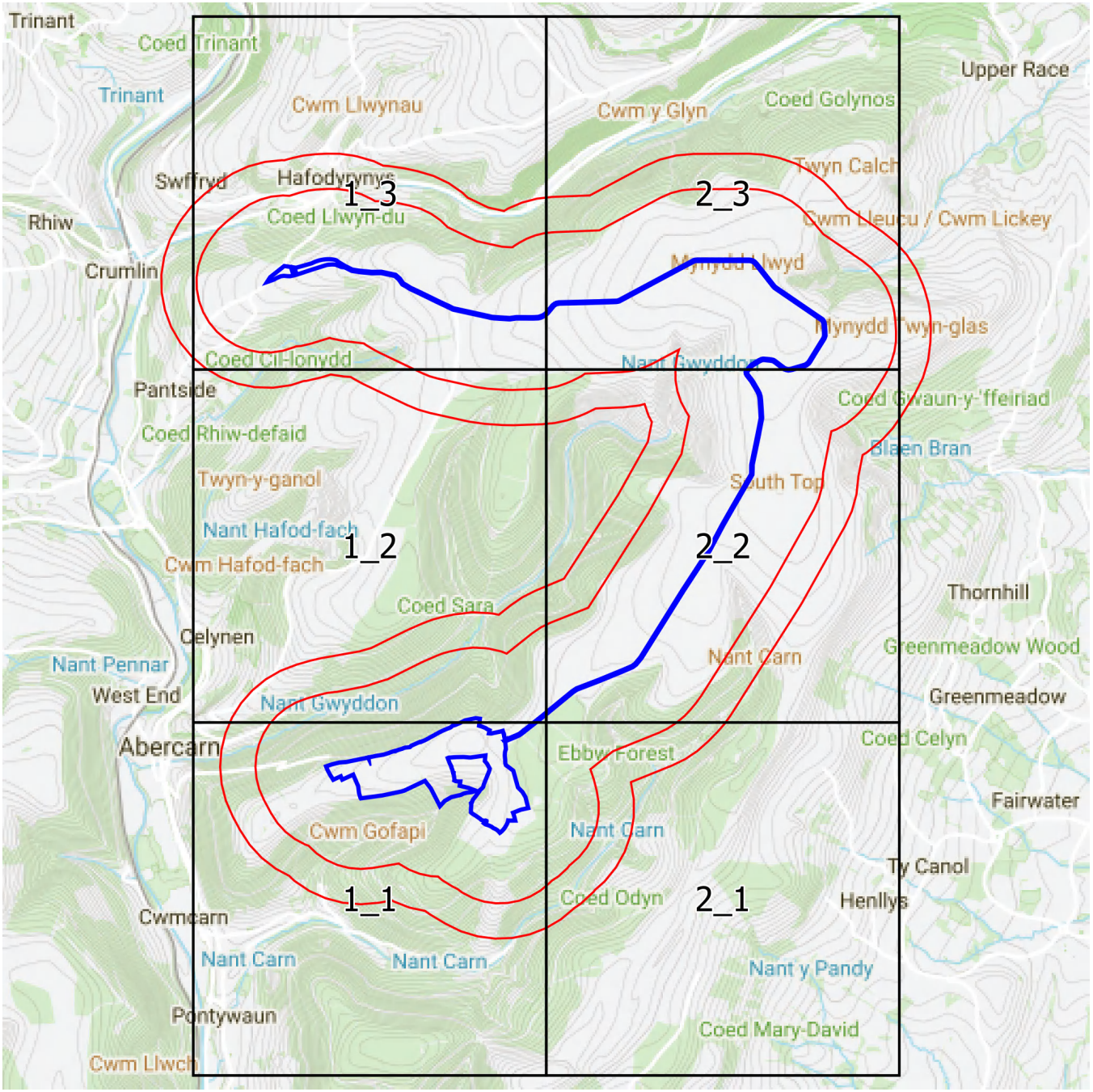
This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference ↗.

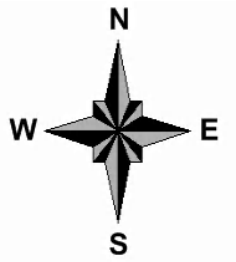
Terms and conditions

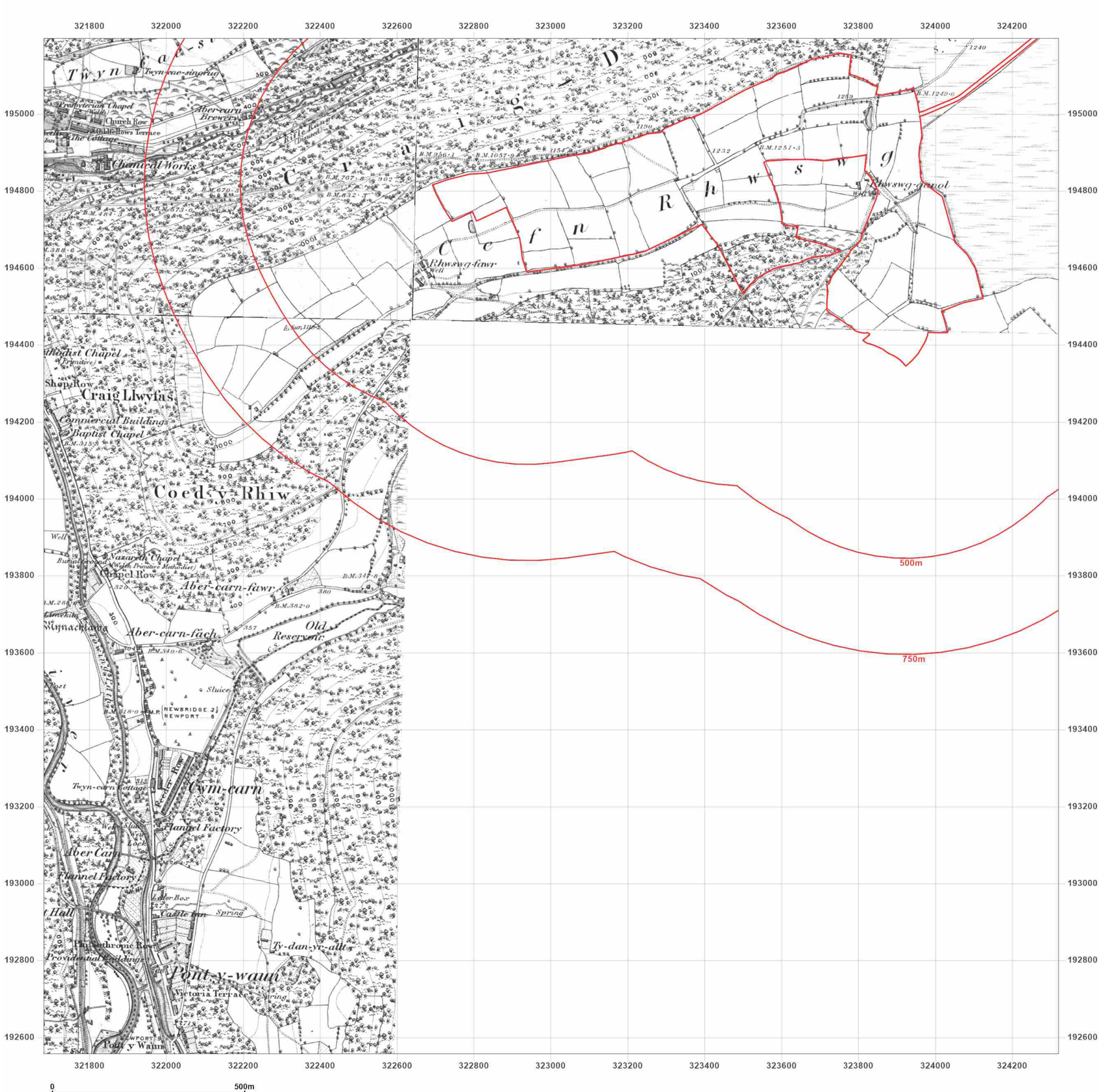
Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



Groundsure INSIGHTS

Small Scale Grid Index





Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

Map date: **1875-1881**

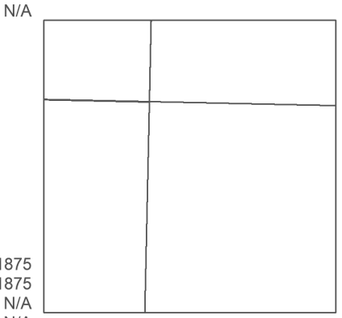
Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1875
Revised 1875
Edition N/A
Copyright N/A
Levelled N/A

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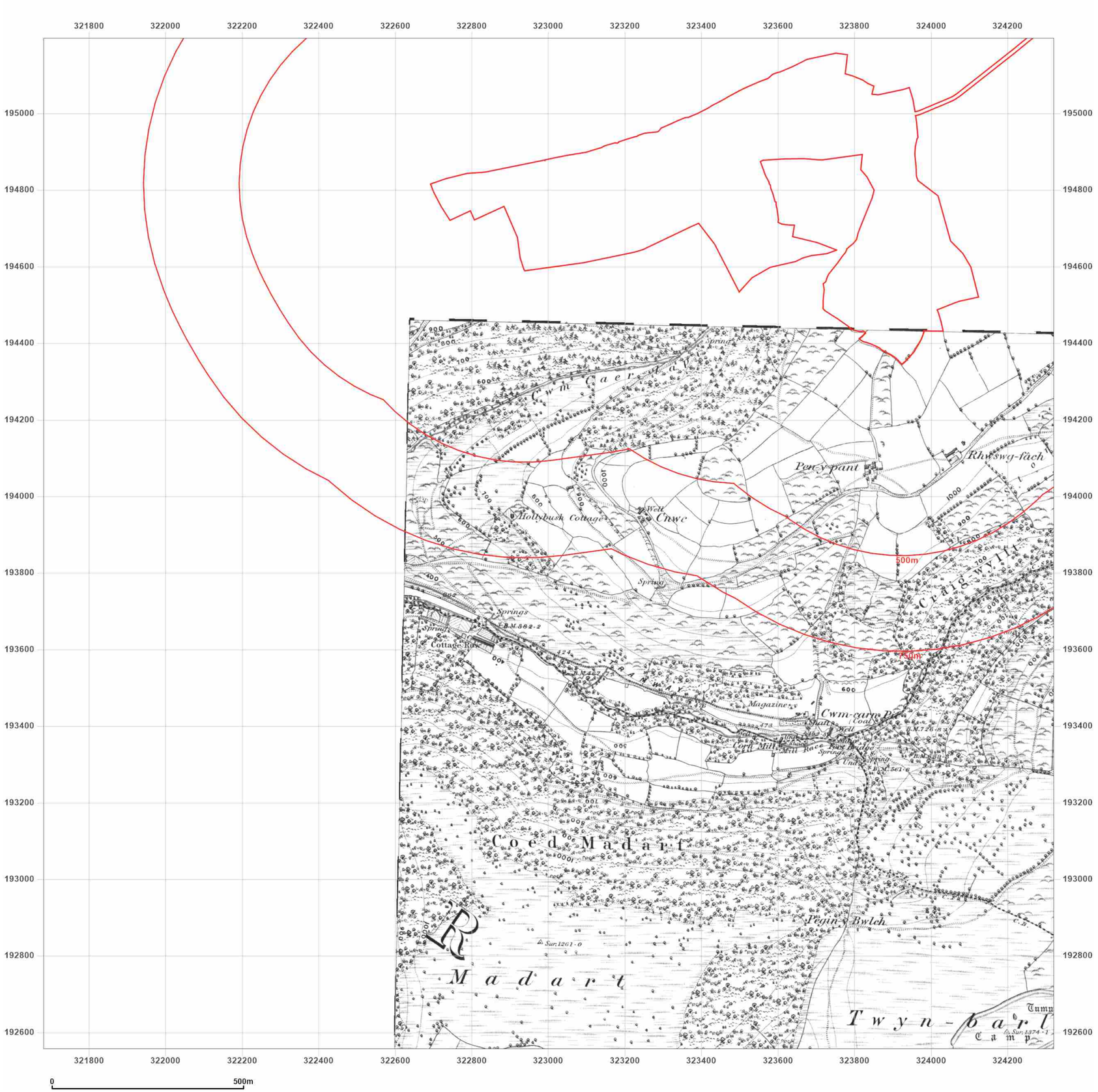
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

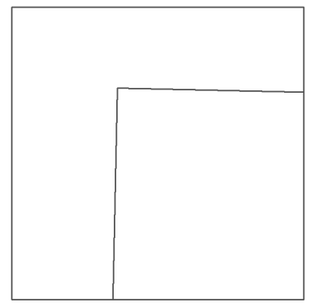
Map Name: County Series

Map date: **1882**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

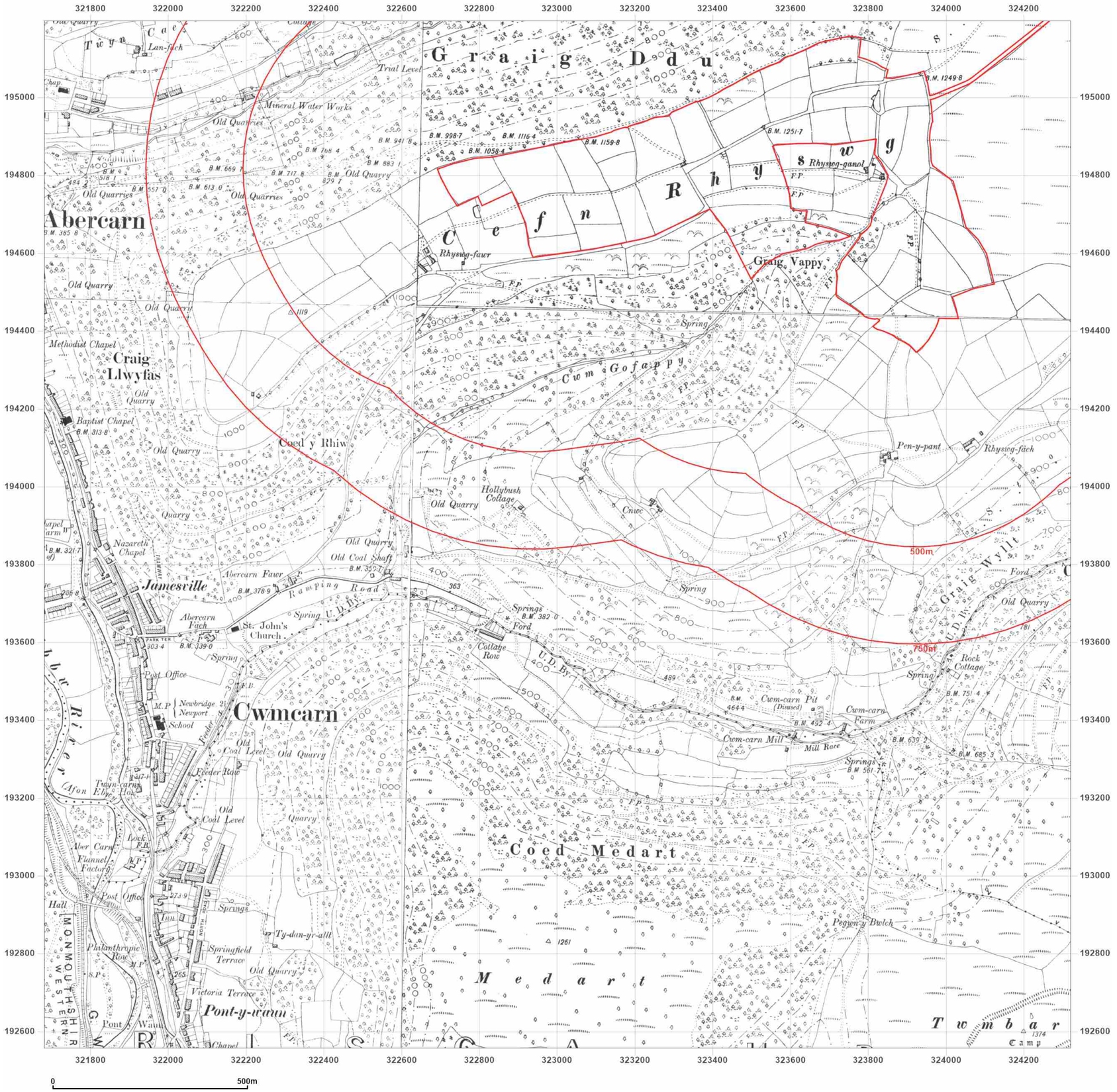
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

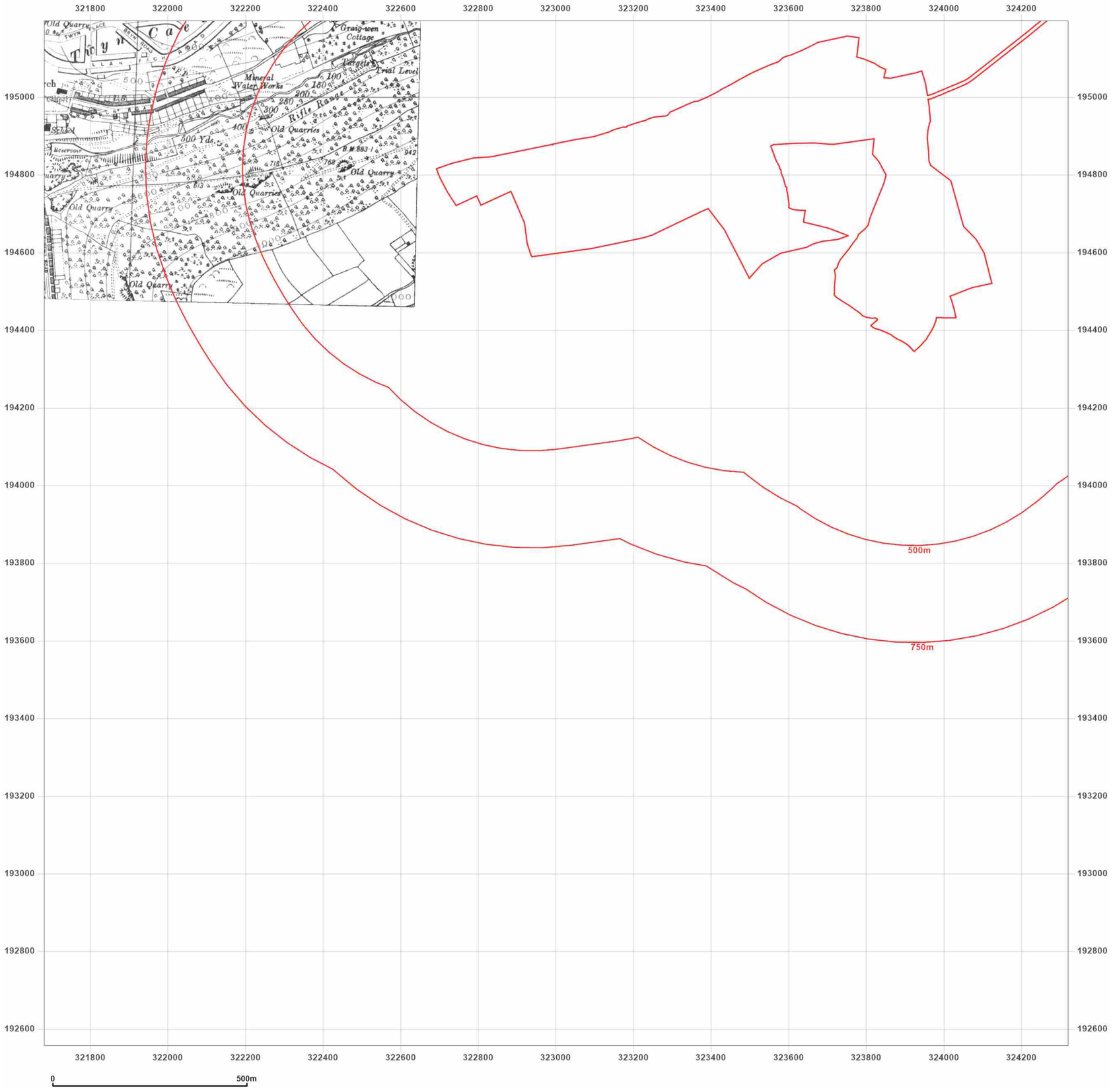
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

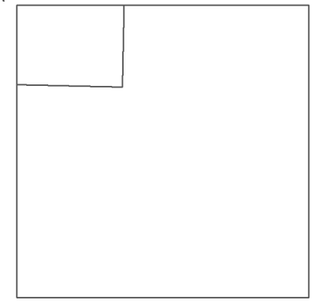
Map date: **1916**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A



Groundsure INSIGHTS

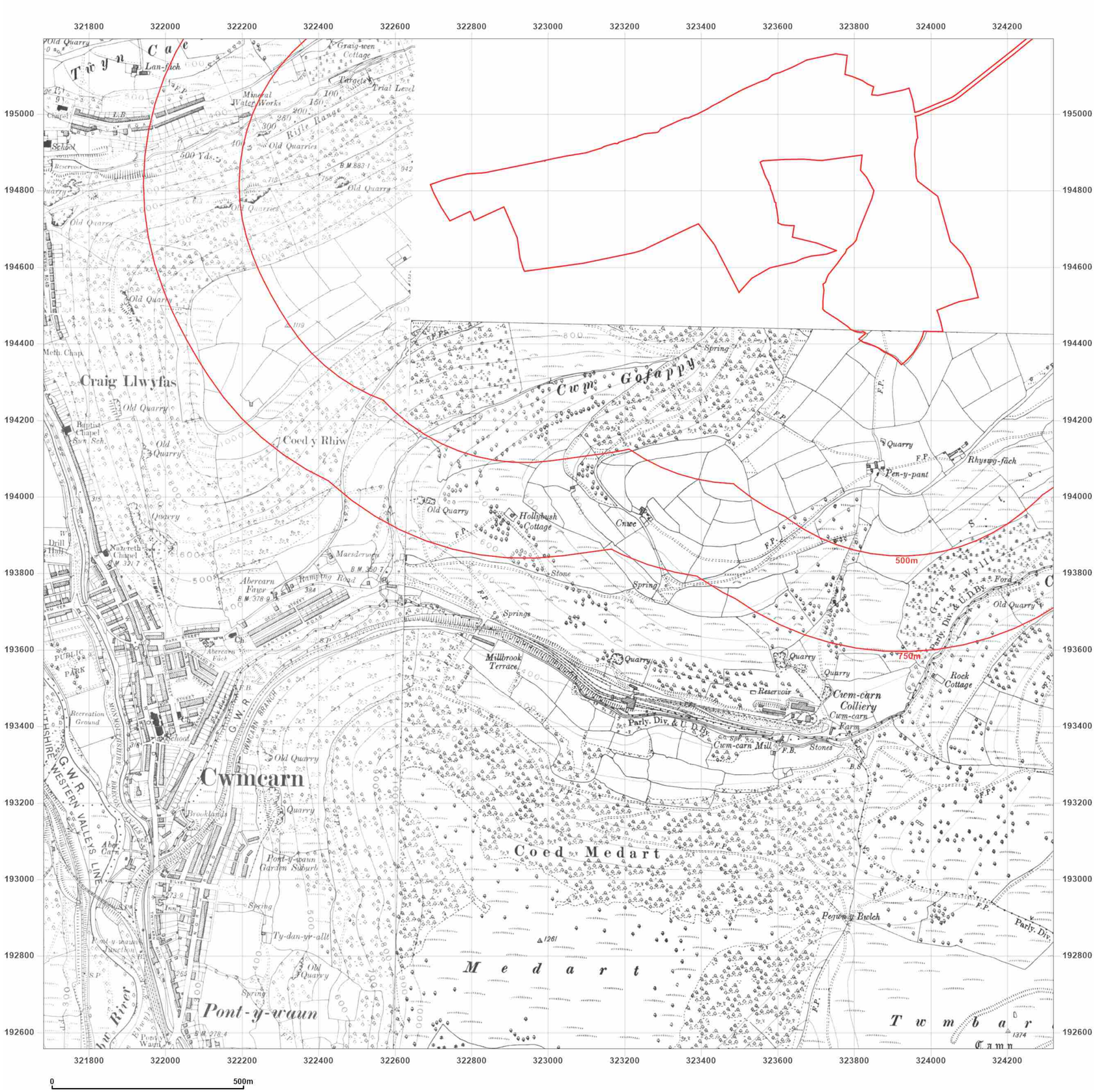
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

Map date: **1916-1917**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1917
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

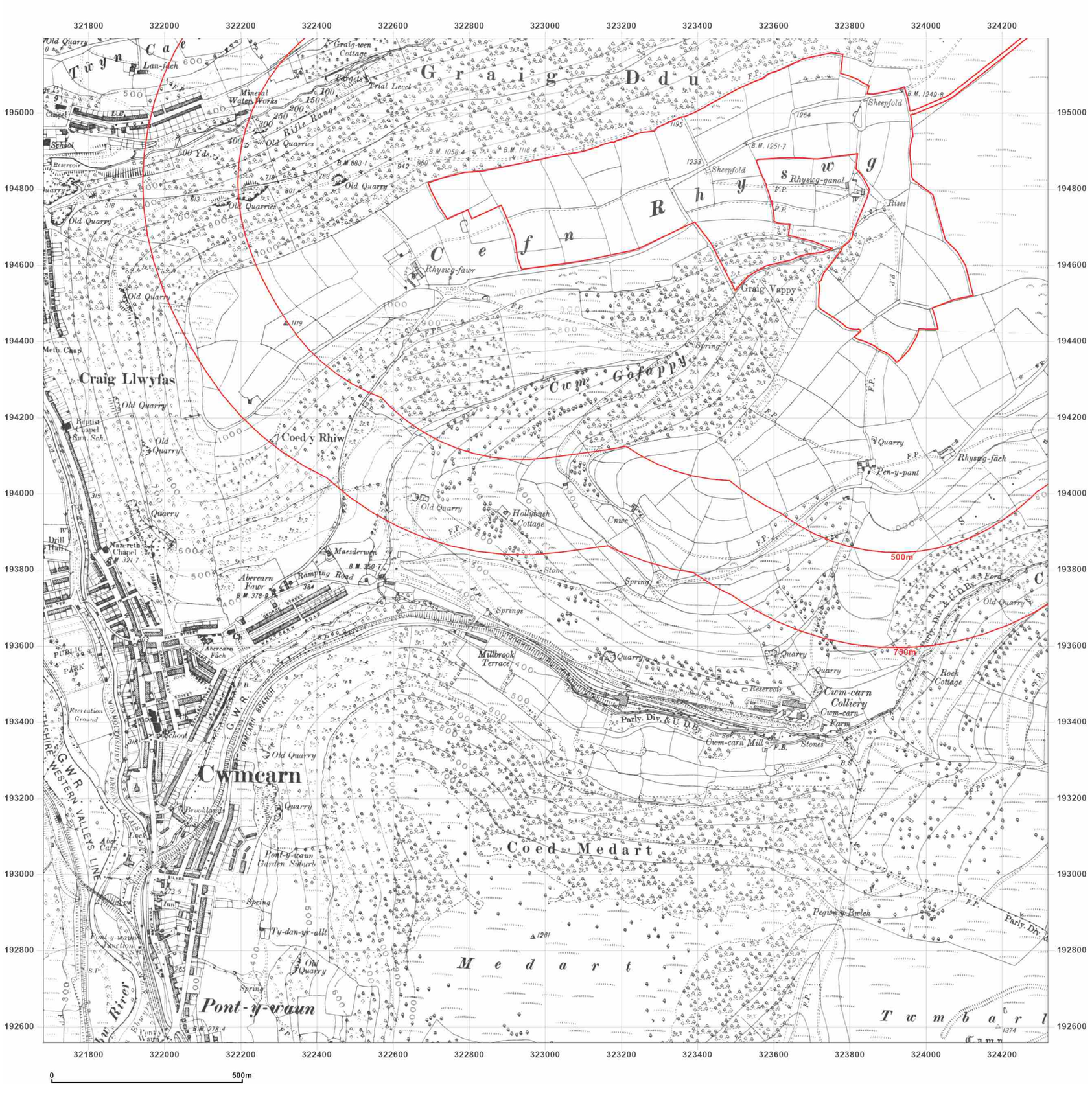
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

Map date: **1922**

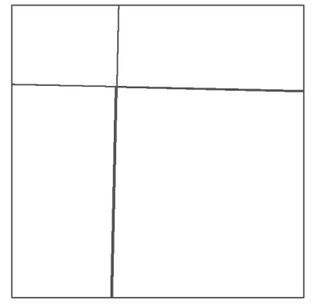
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Printed at: 1:10,560

N
W E
S

Surveyed 1873
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition 1922
Copyright N/A
Levelled N/A



Surveyed 1874
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

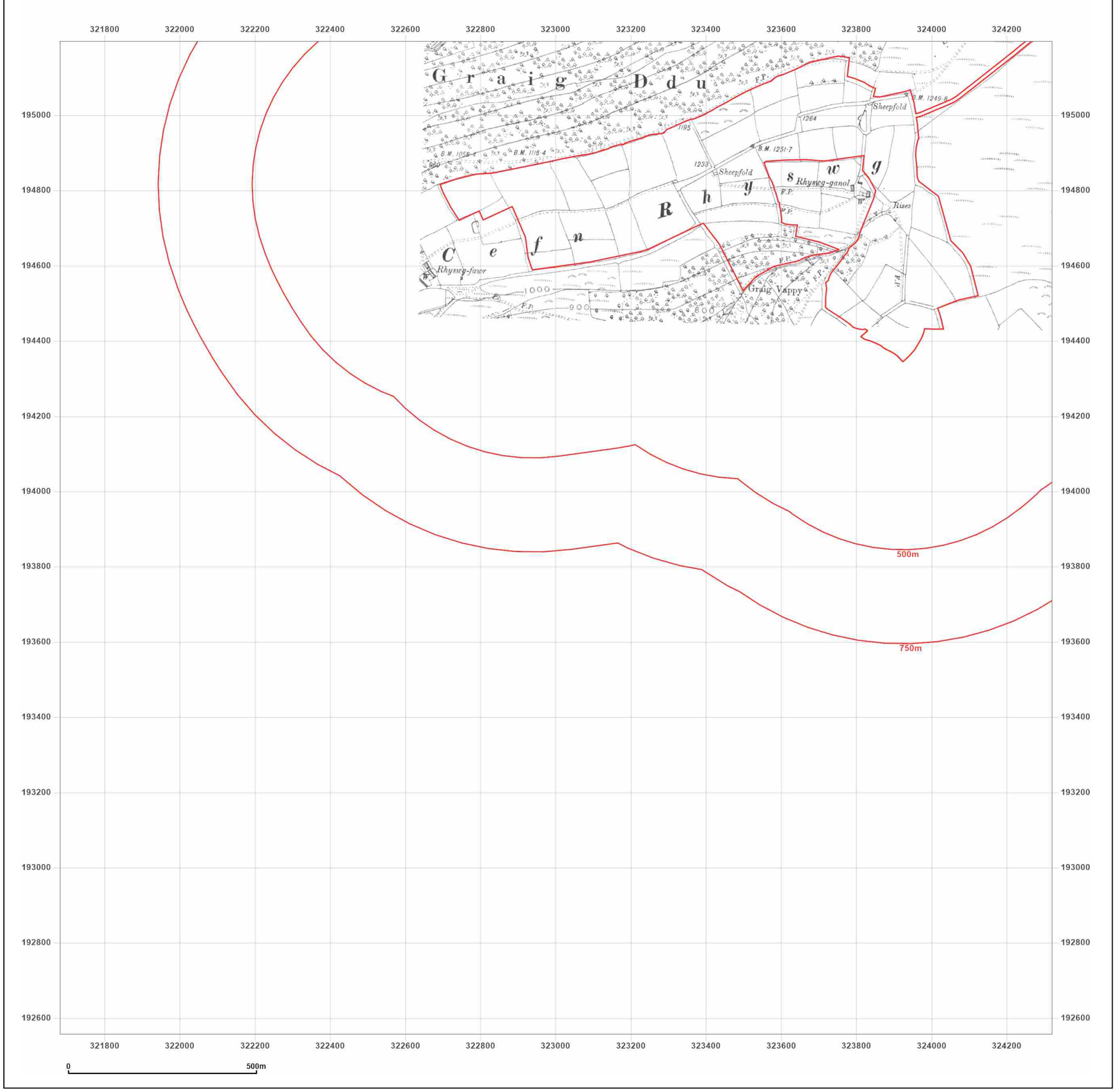
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

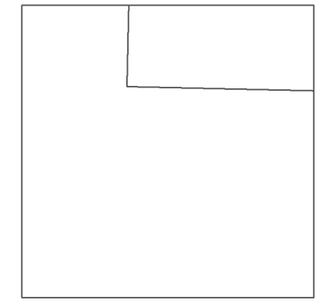
Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
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Surveyed 1881
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



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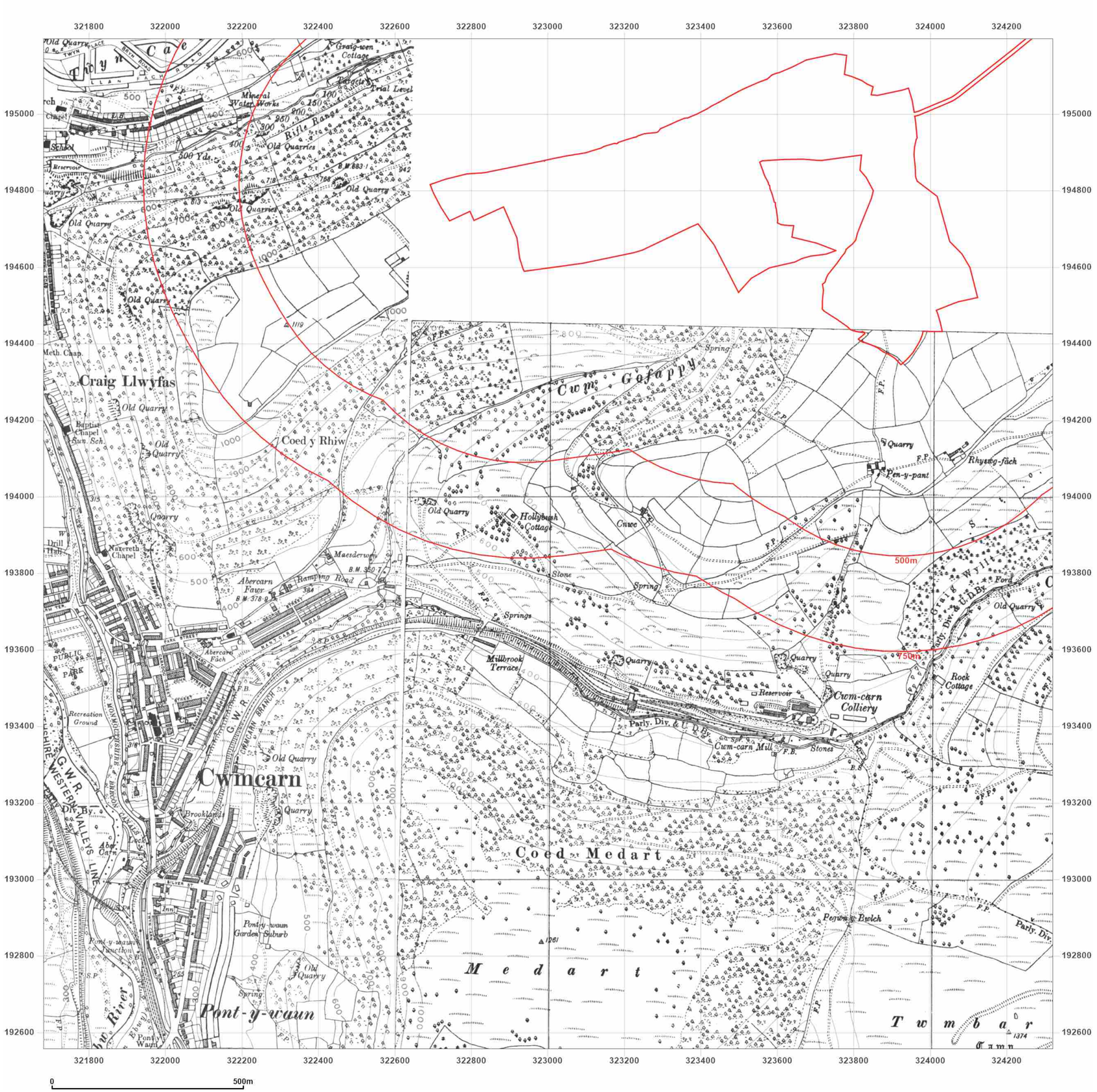
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

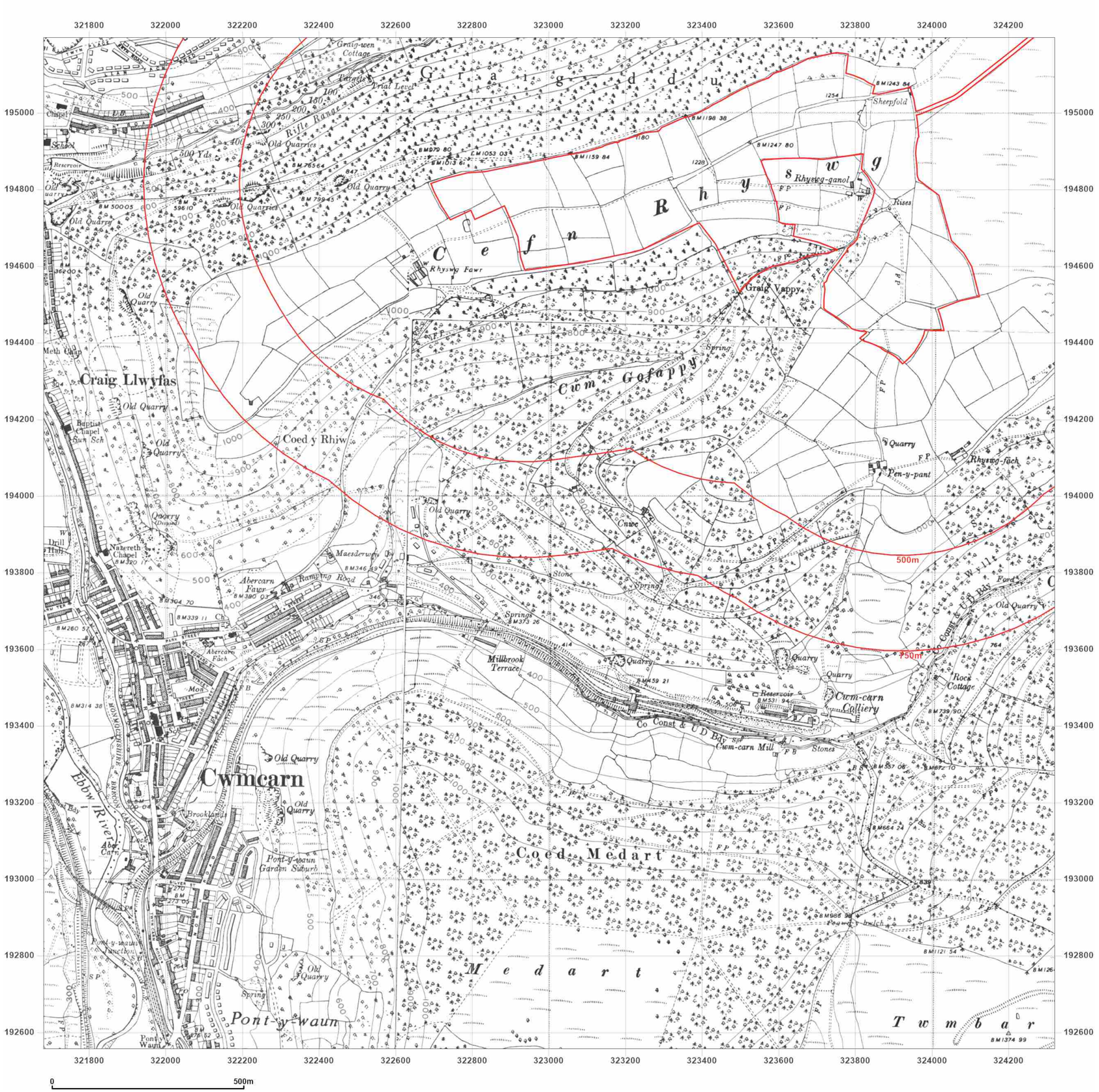
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

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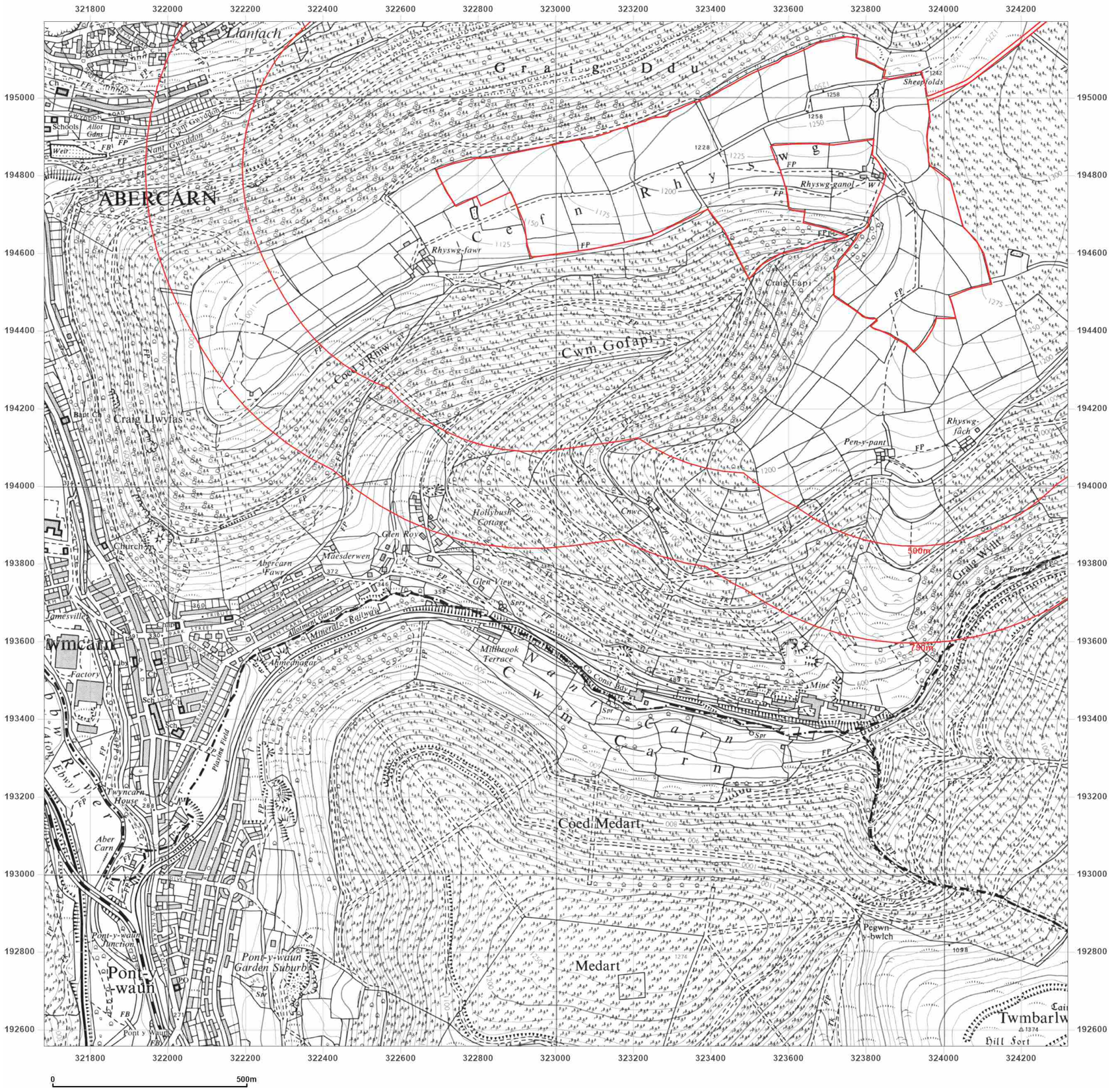
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: Provisional

Map date: **1963-1965**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1963
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

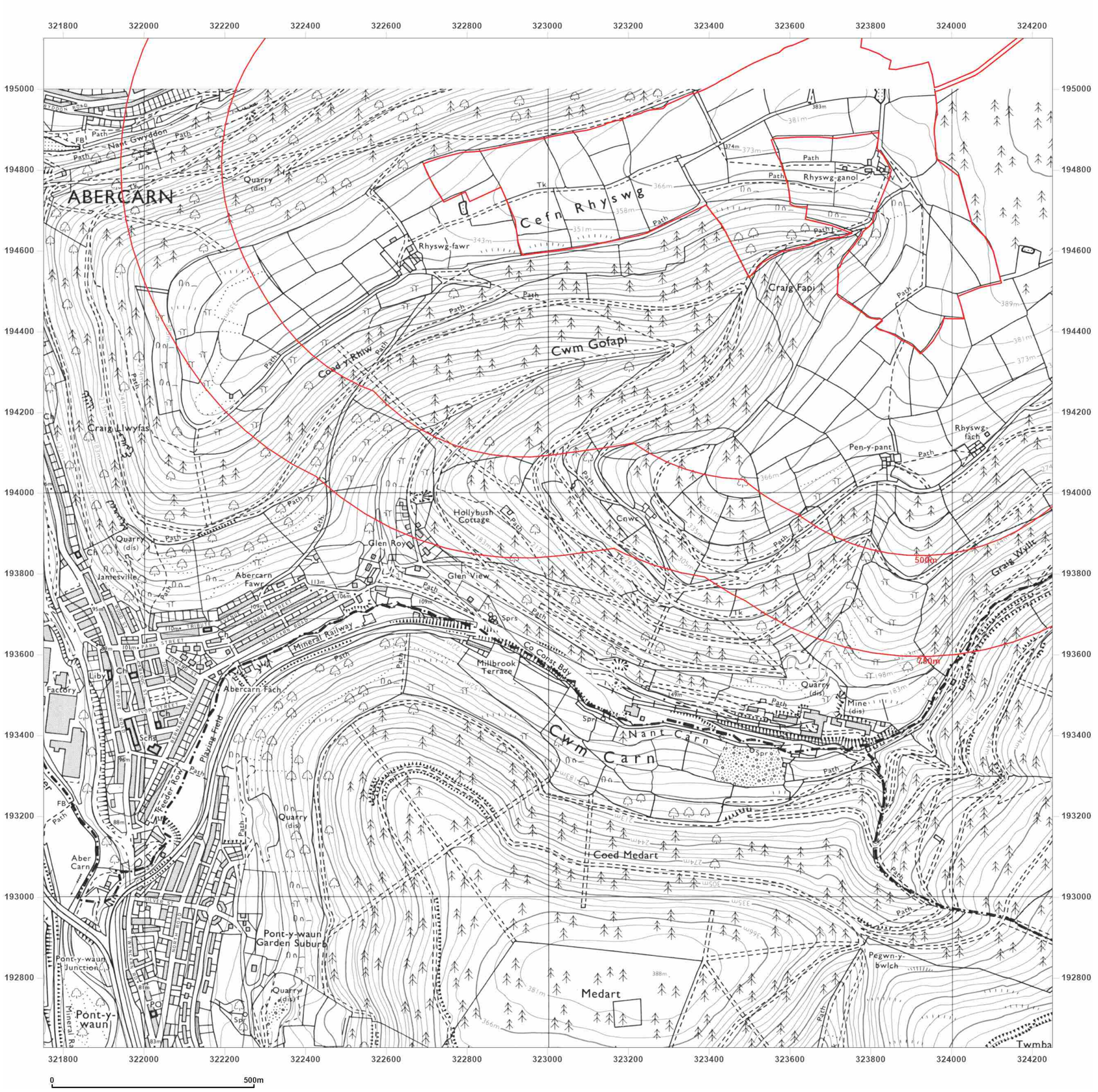
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: National Grid

Map date: **1970**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1970
Revised 1970
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

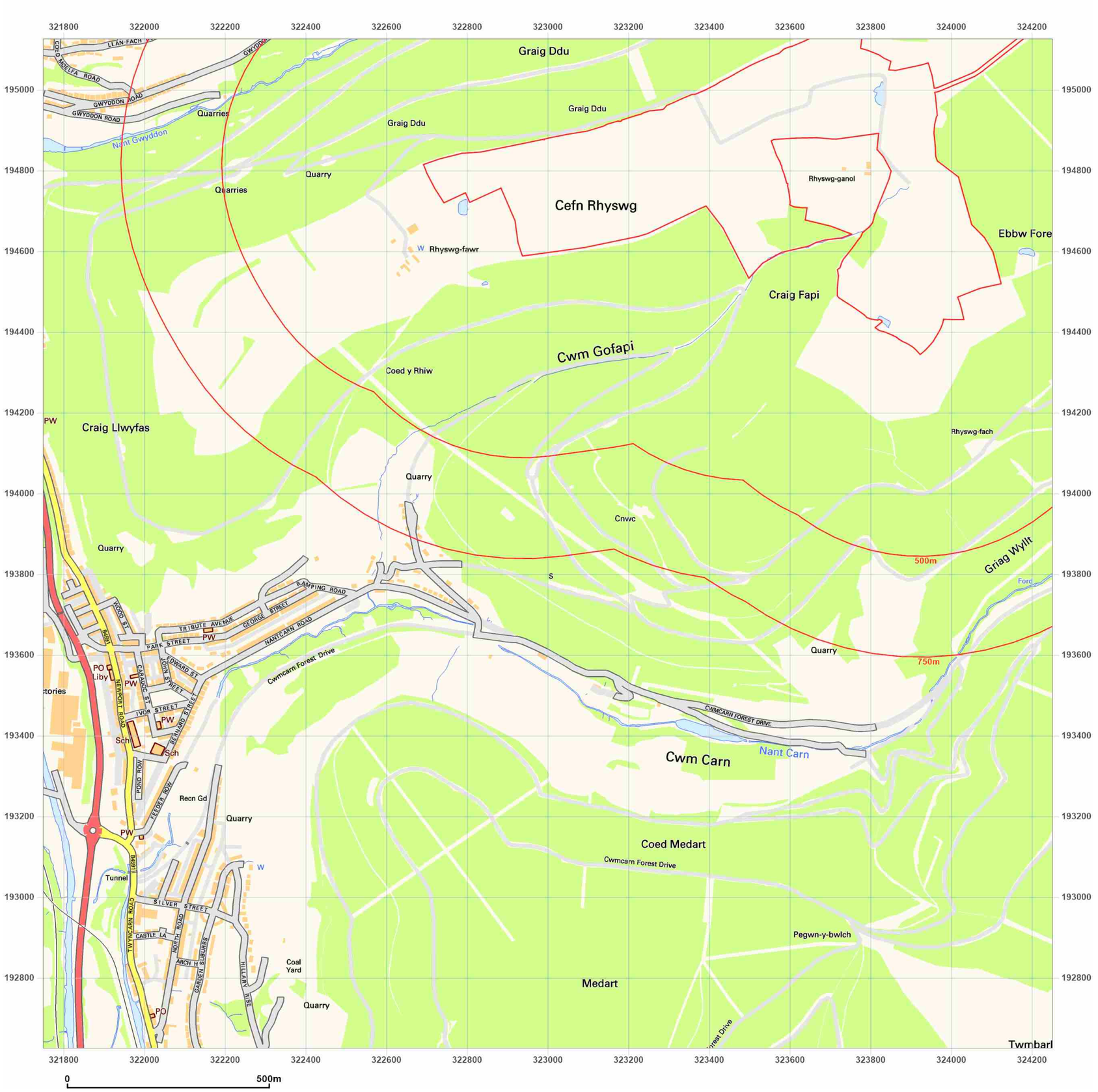
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

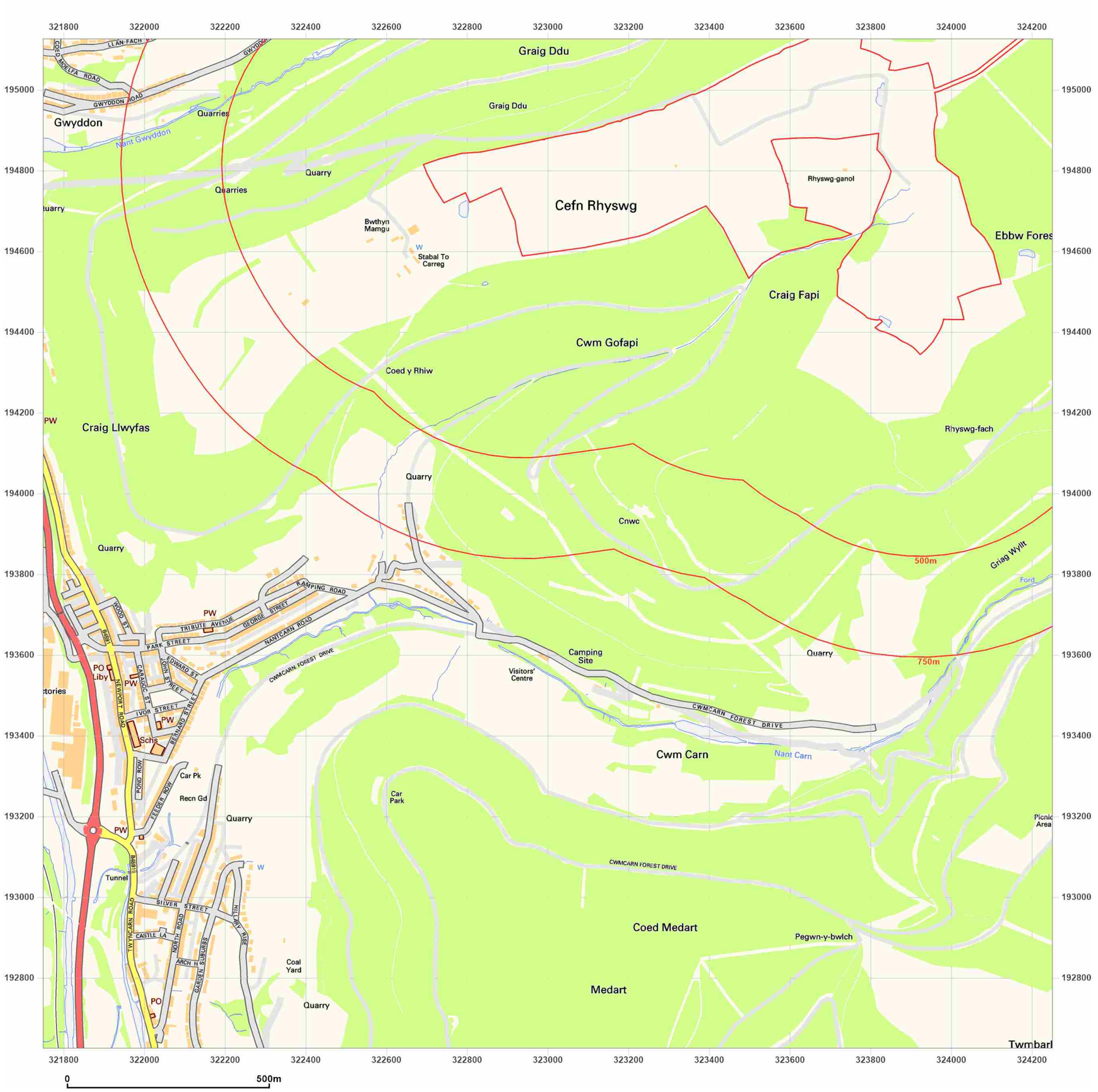
2001

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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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2010

Groundsure INSIGHTS

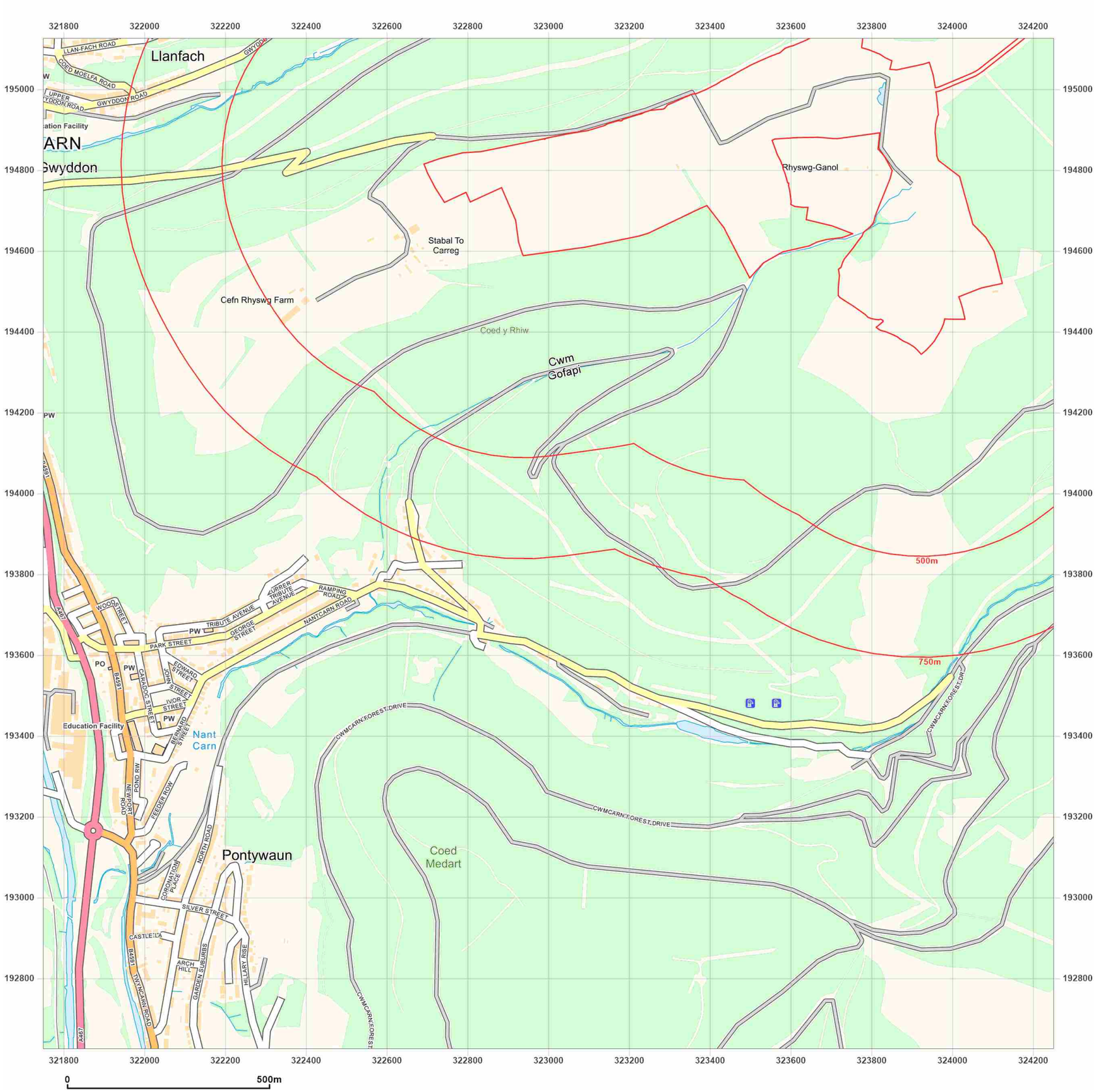
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_1
Grid Ref: 323000, 193876

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2025

Groundsure INSIGHTS

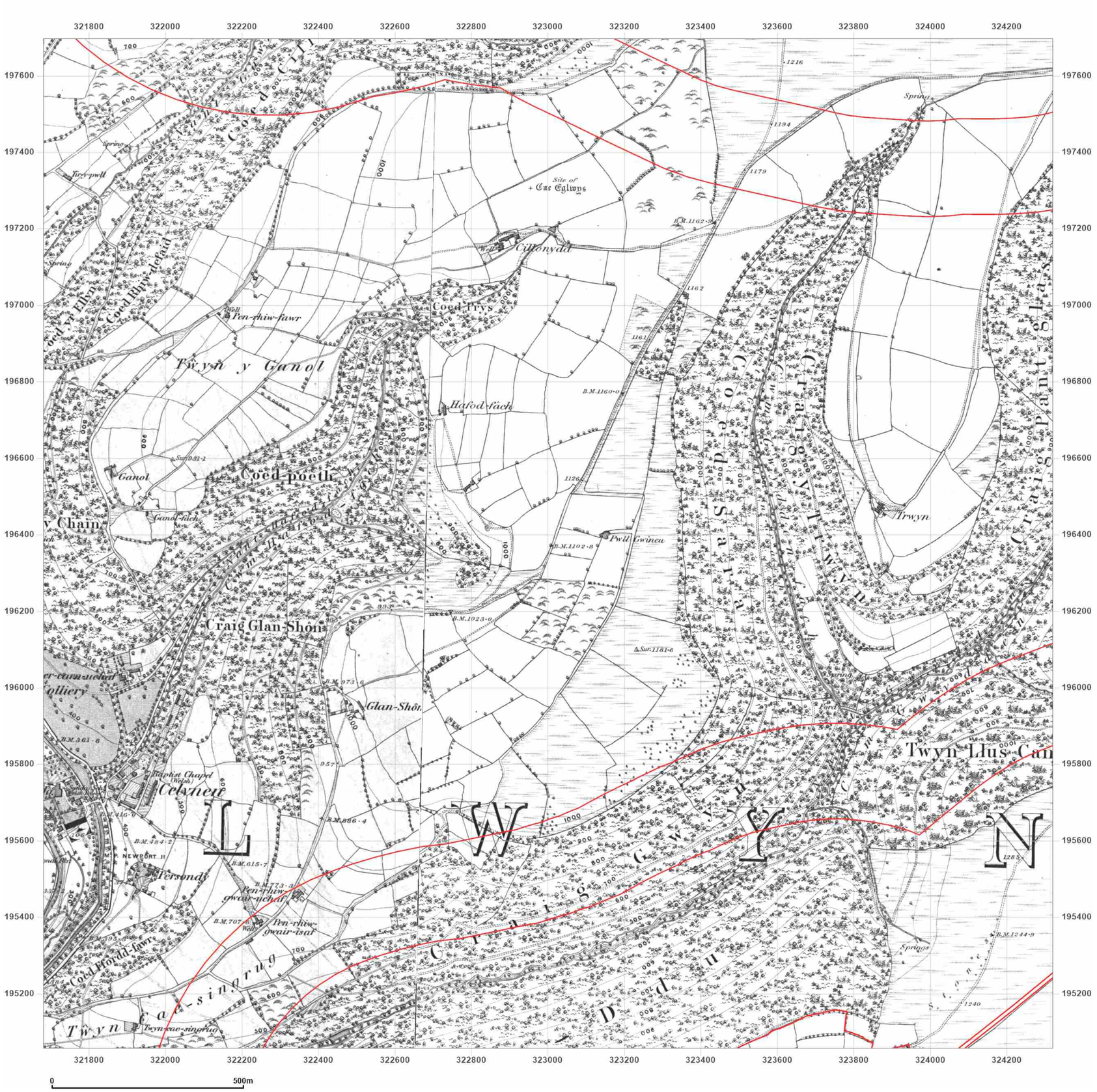
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: County Series

Map date: **1879-1881**

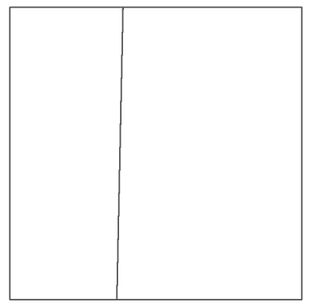
Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A



Groundsure INSIGHTS

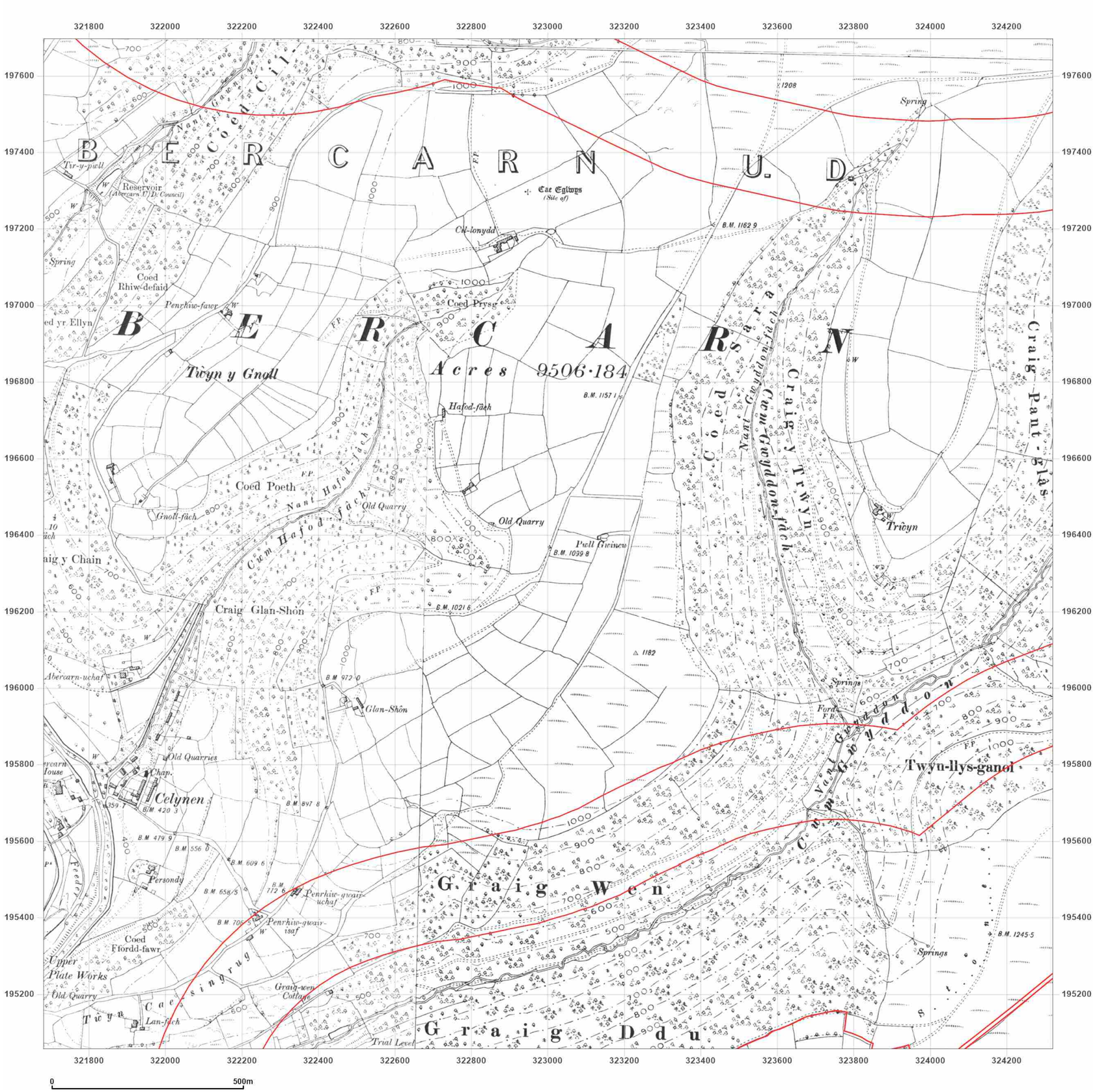
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1877
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

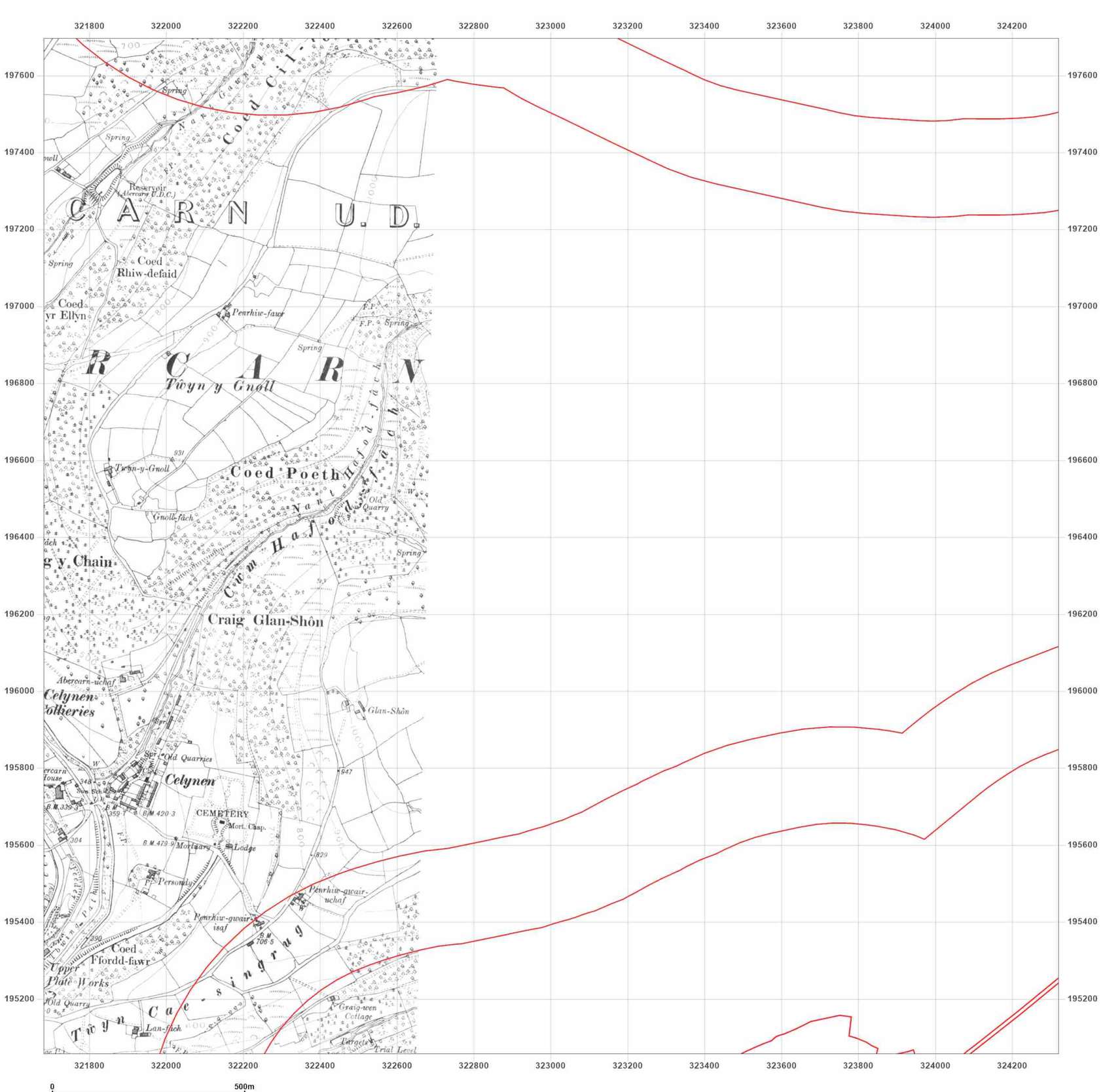
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: County Series

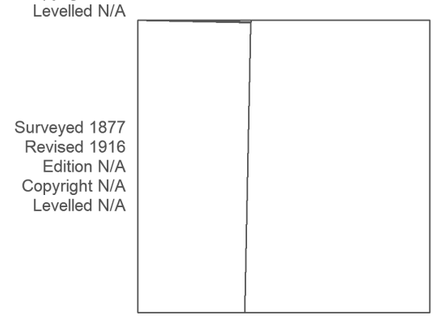
Map date: **1916**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1877
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A



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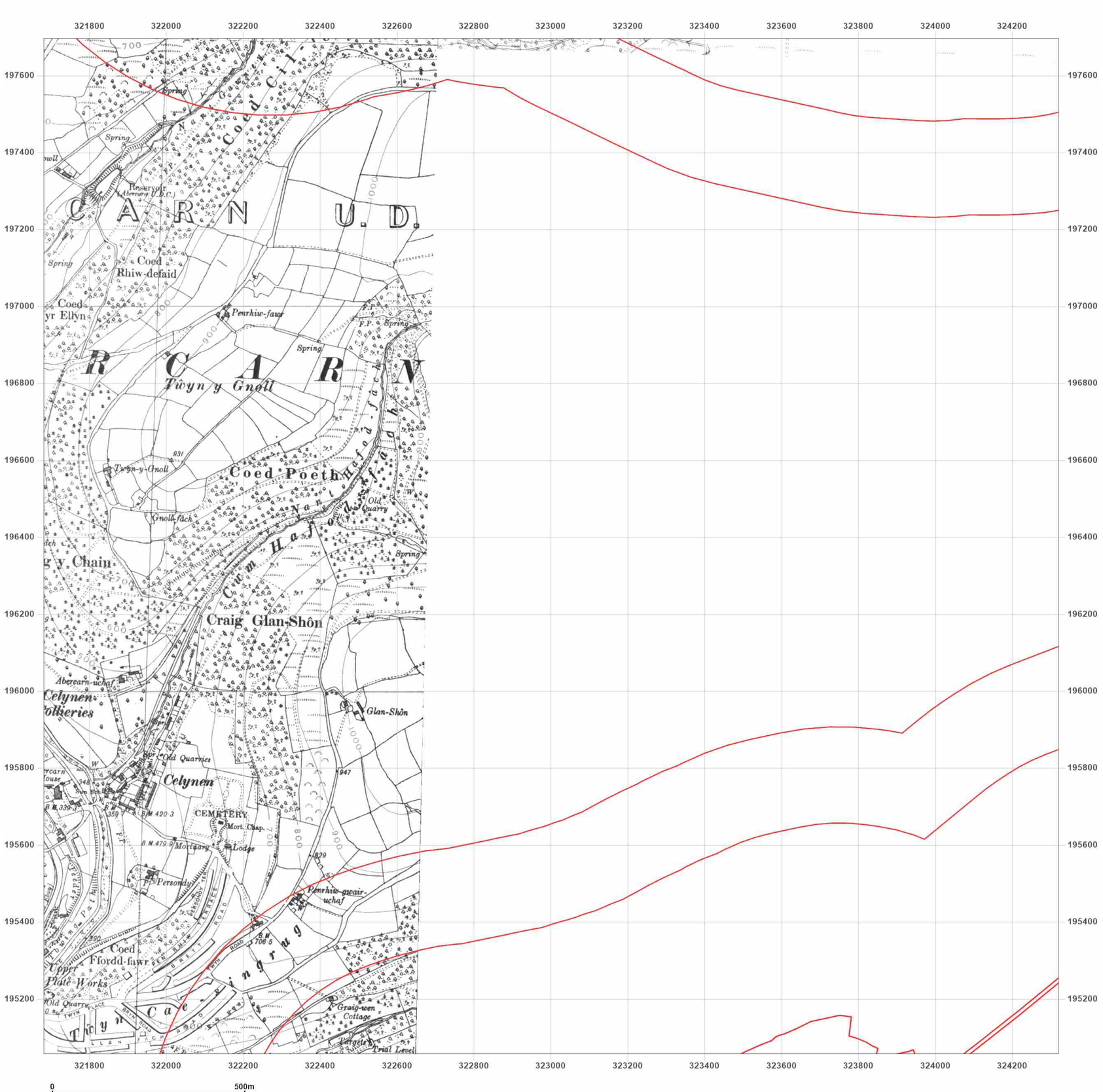
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Site Details:

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Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: County Series

Map date: **1916-1917**

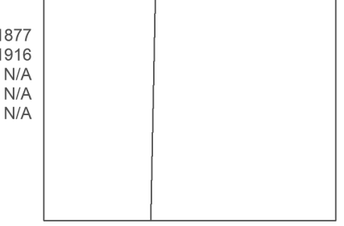
Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1877
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1917
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1877
Revised 1916
Edition N/A
Copyright N/A
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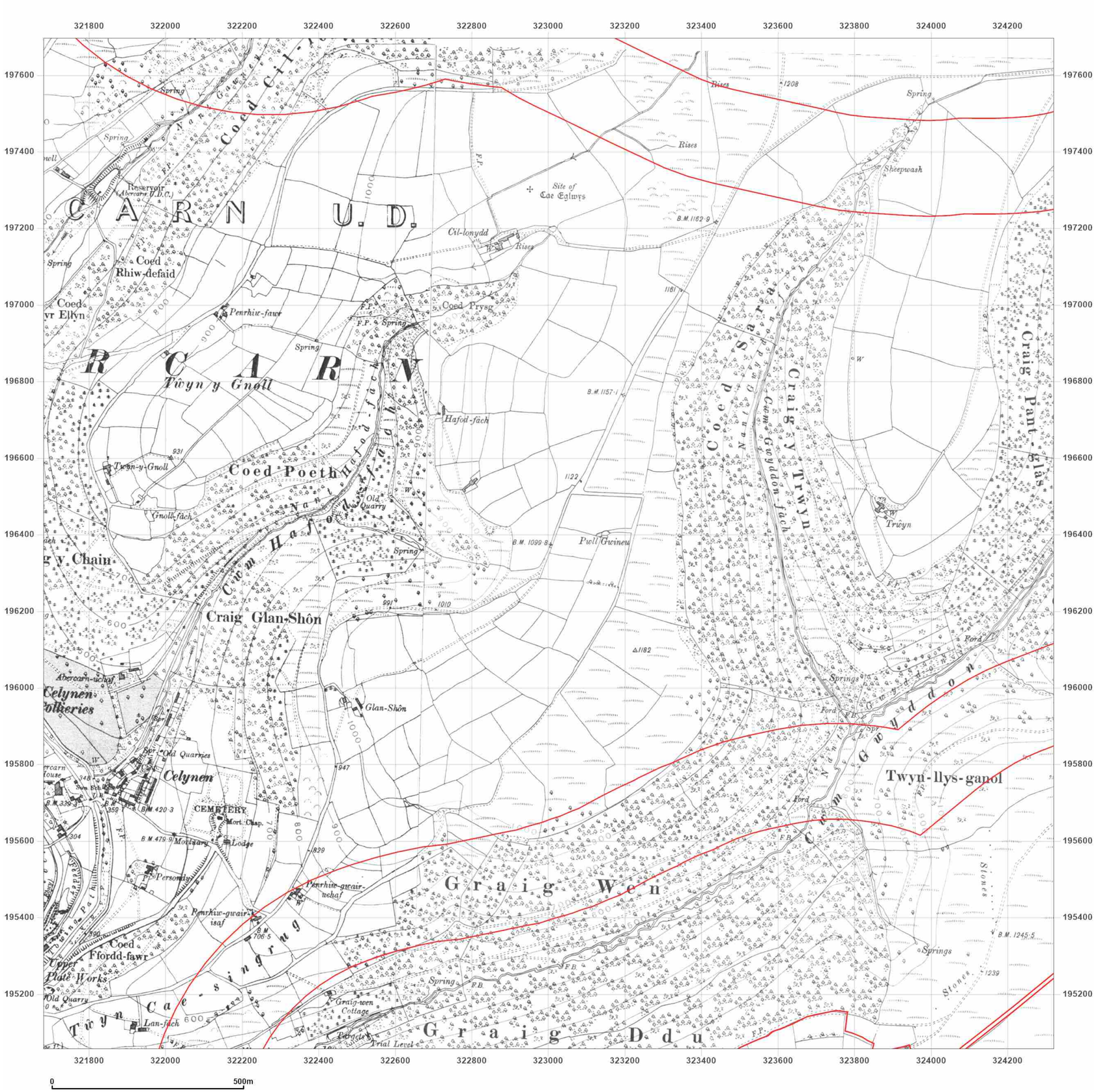
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Production date: 12 September 2025

Map legend available at:
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: County Series

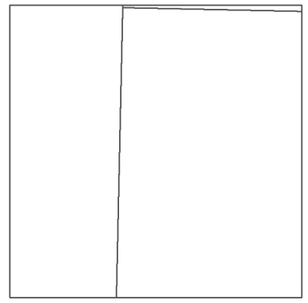
Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1873
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1878
Revised 1922
Edition 1922
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

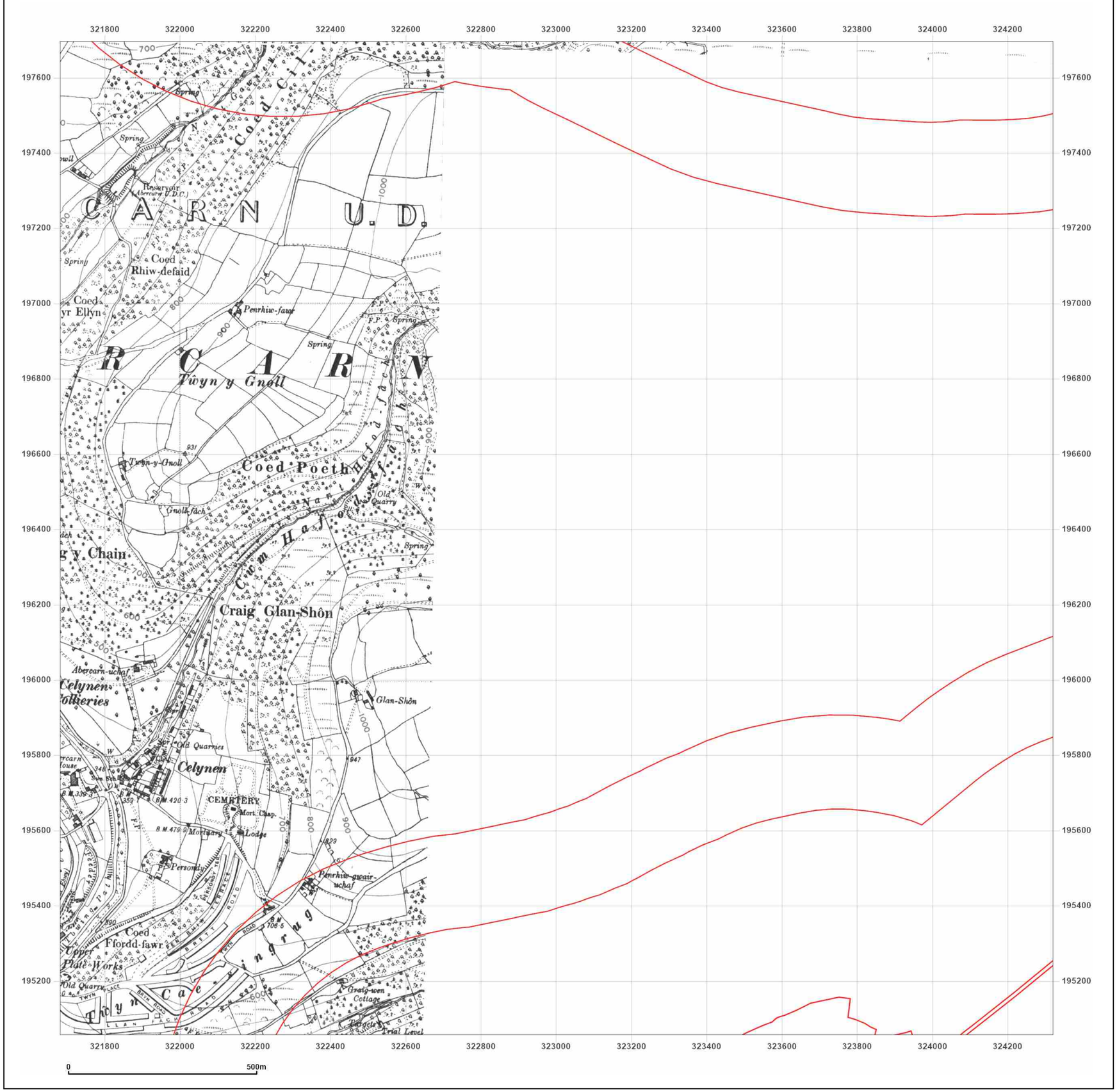
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: County Series

Map date: **1938**

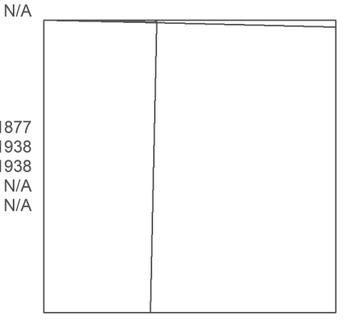
Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1877
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A



Surveyed 1877
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

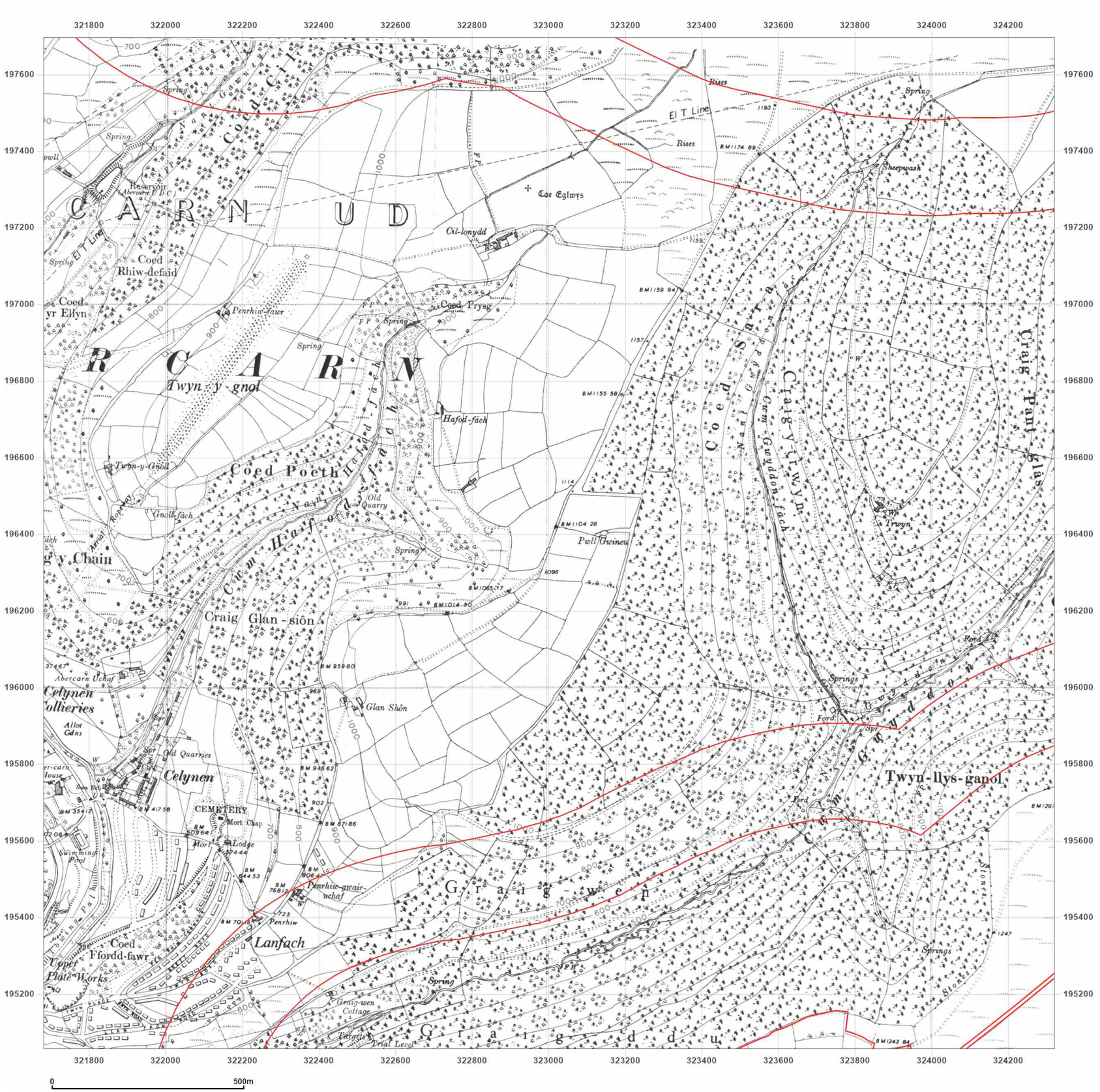
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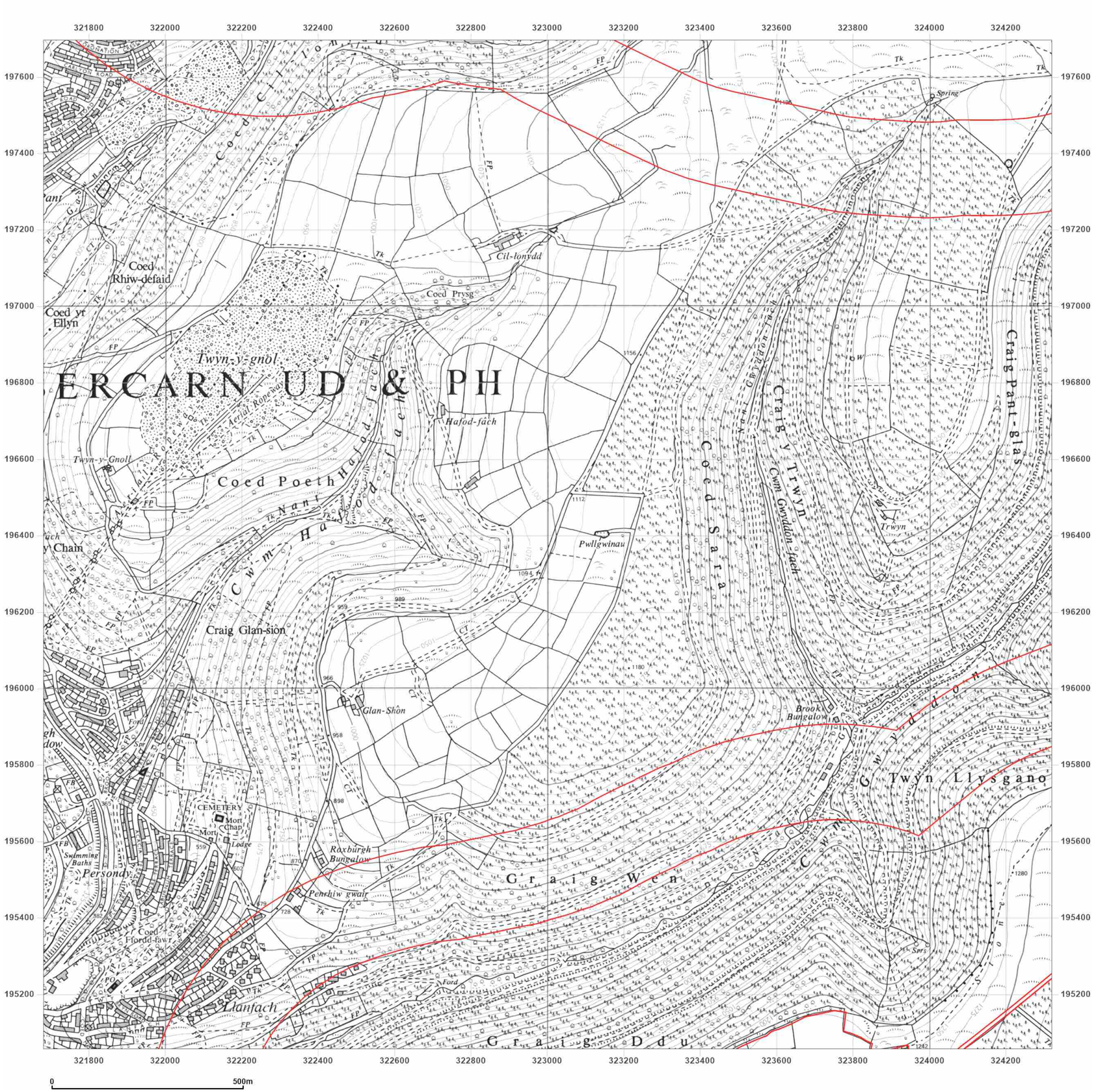
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Production date: 12 September 2025

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197600
197400
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197000
196800
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195200
CARN UD
CARN
Twyn-y-gnol
Coed Rhiw-defaid
Coed yr Ellyn
Penrhiw-fawr
Coed Prysg
Cil-lonydd
Cae Eglwys
Hafod-fach
Coed Poeth
Twyn-y-Gnoll
Gnoll-fach
Old Quarry
Pwll Gwineu
Craig Glan-siôn
Glan Shôn
Celynen Collieries
Celynen
Old Quarries
CEMETERY
Mort Chap
Lodge
Swimming Pool
Penrhiw-grair-uchaf
Penrhiw
Lanfach
Coed Ffordd-fawr
Upper Plate Works
Graig-wen
Graig-wen Cottage
Graig-gadduu
Twyn-llys-ganol
Coed Craig-y-Twyn
Craig Pant-glas
Cwm Gwyddon
Cwm Hafod-fach
Nant Gwineu
Nant Graig-gadduu
Nant Gwyddon-fach
Nant Craig-y-Twyn
Reservoir (Abercarn U.D.C.)
Abercarn Uchaf
Allot Gdns
Sheepwash
Springs
Ford
Trwyn
Rises
El T Line
Graig-wen Cottage
Trial Level
Rope Way
Aerial Rope Way
Stone Pit
Quarry
Spring
Ford
Springs
Rises
Trwyn



Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: Provisional

Map date: **1965**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

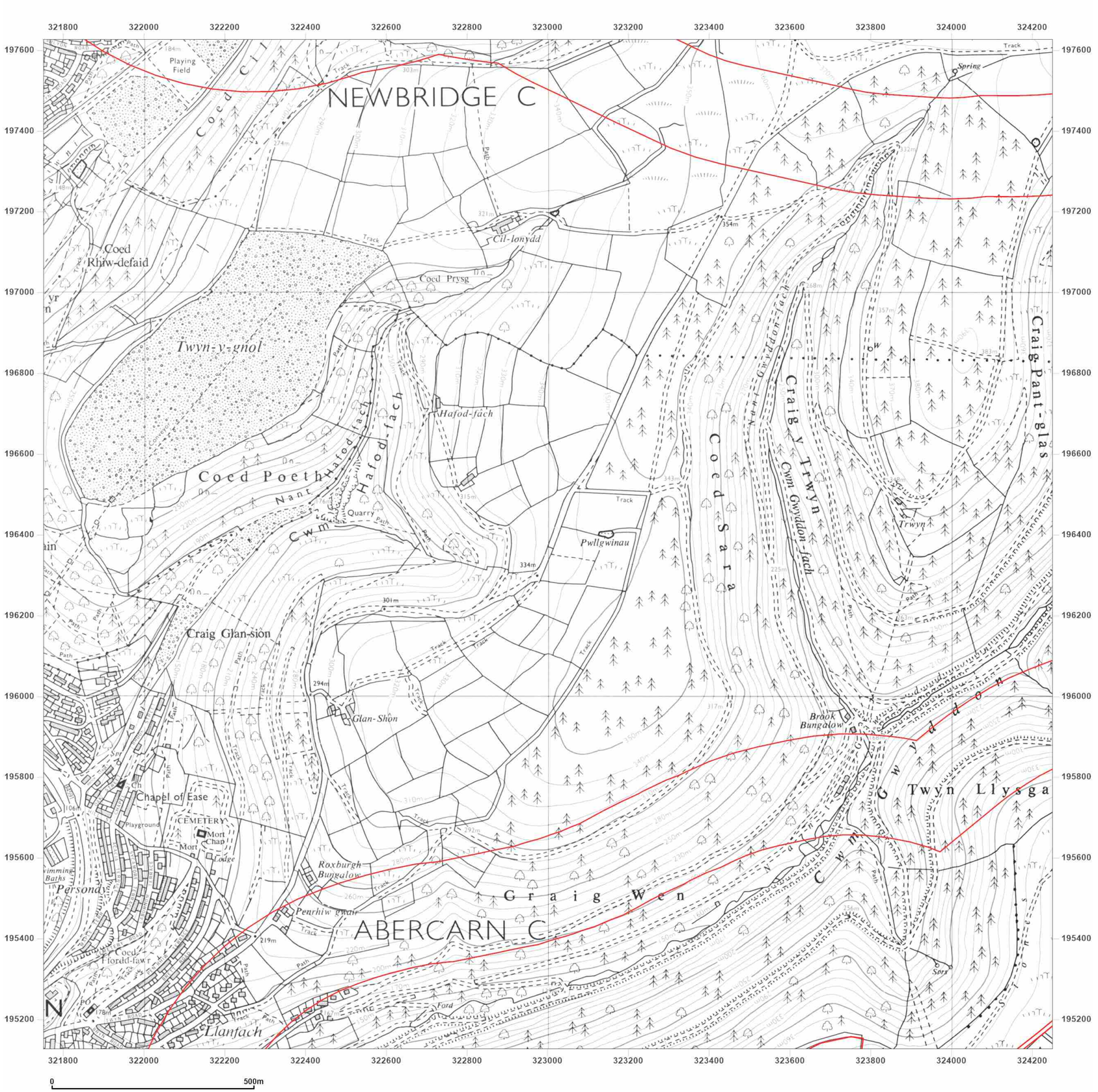
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: National Grid

Map date: **1981**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1976
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

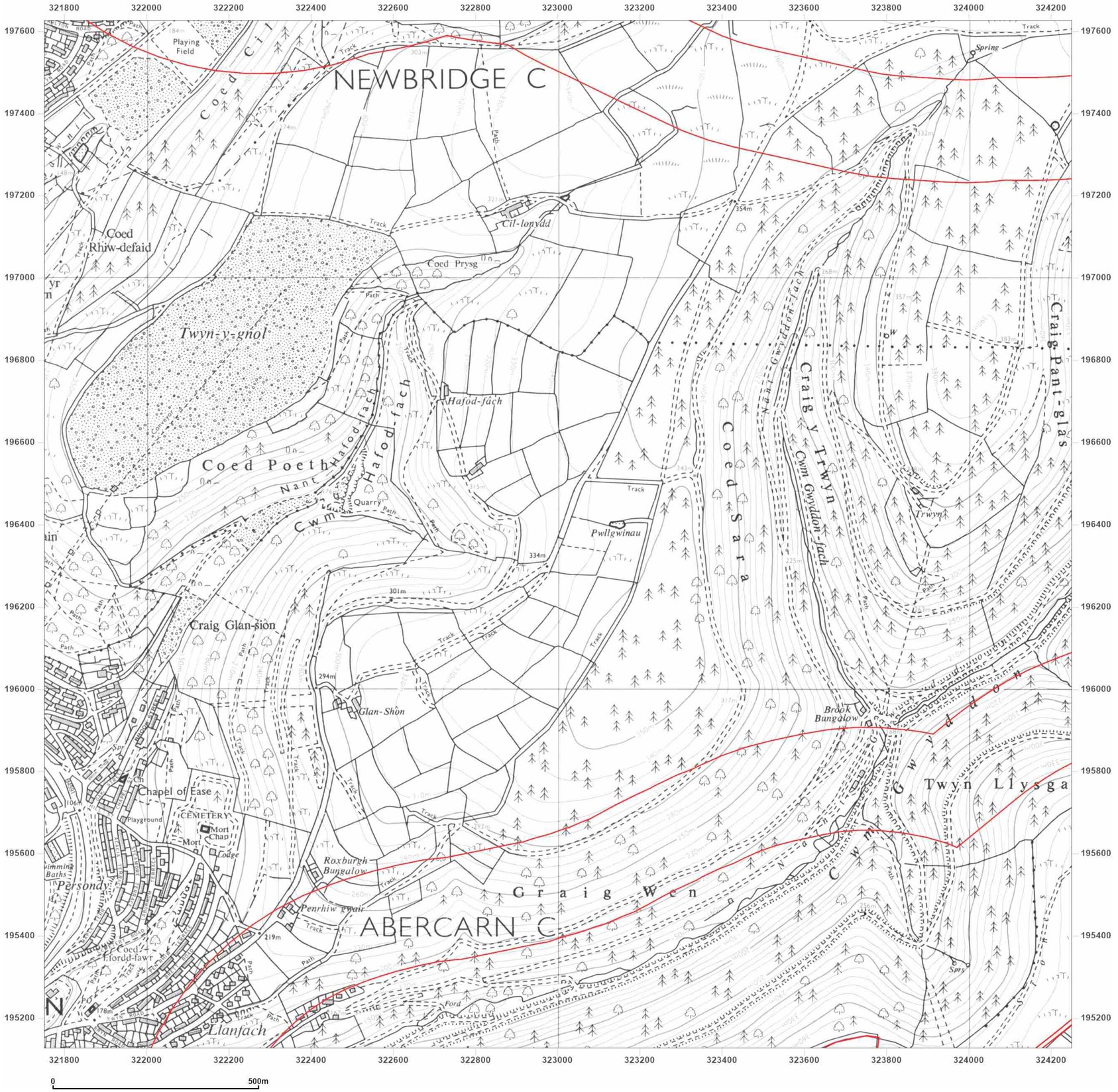
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: National Grid

Map date: **1989**

Scale: 1:10,000

Printed at: 1:10,000

N
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Surveyed 1976
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

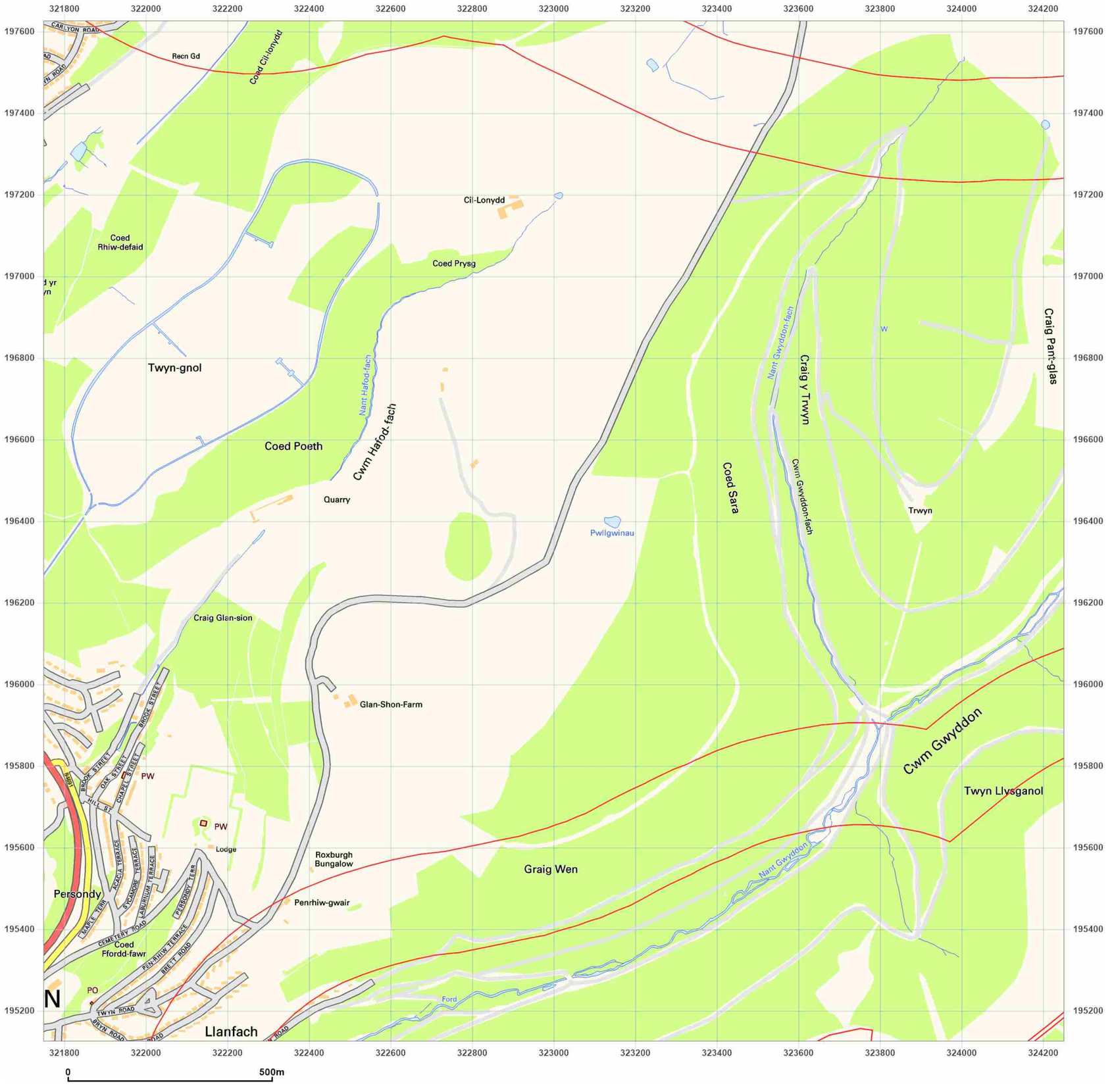
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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2001

Groundsure INSIGHTS

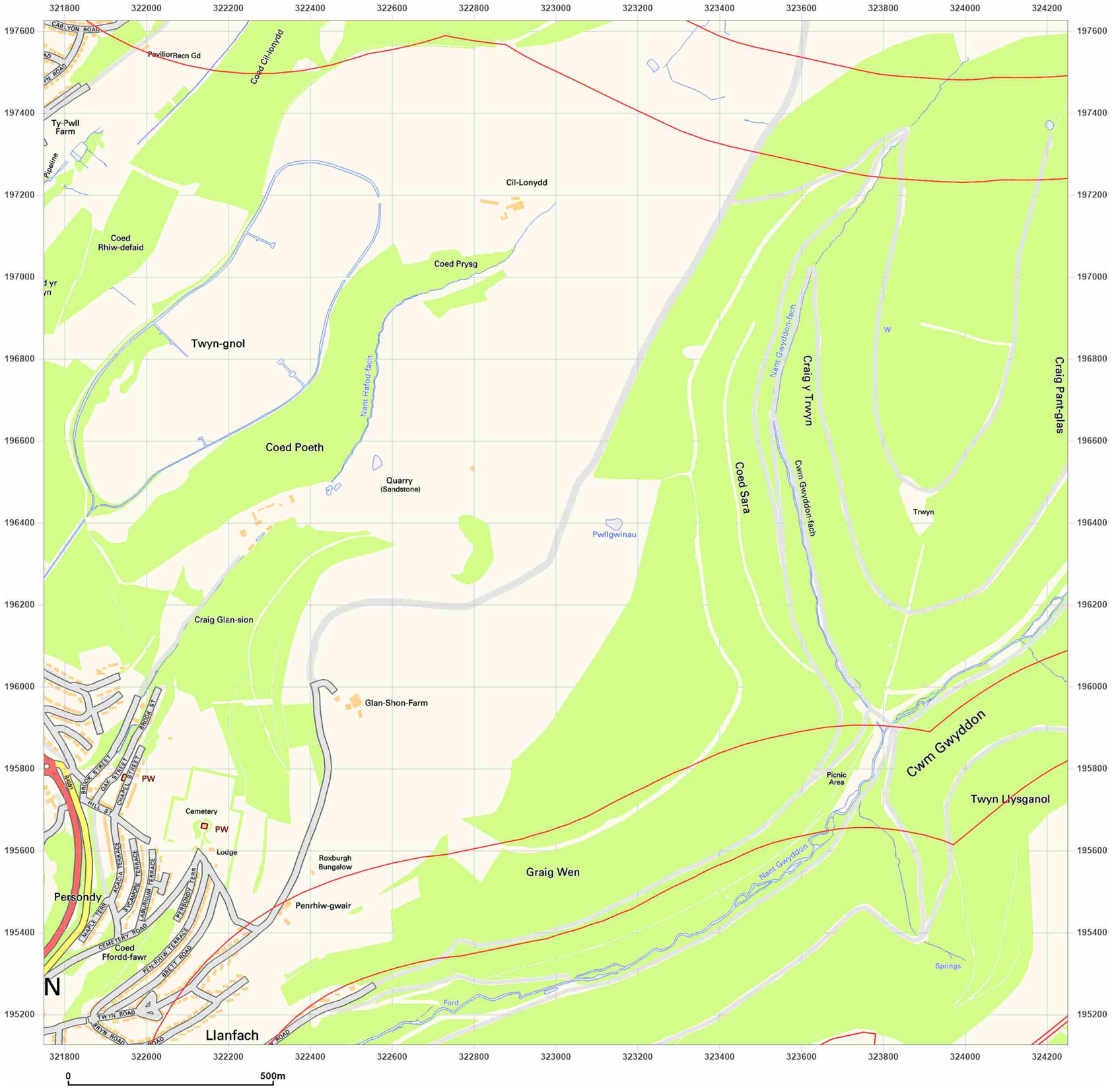
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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2010

Groundsure INSIGHTS

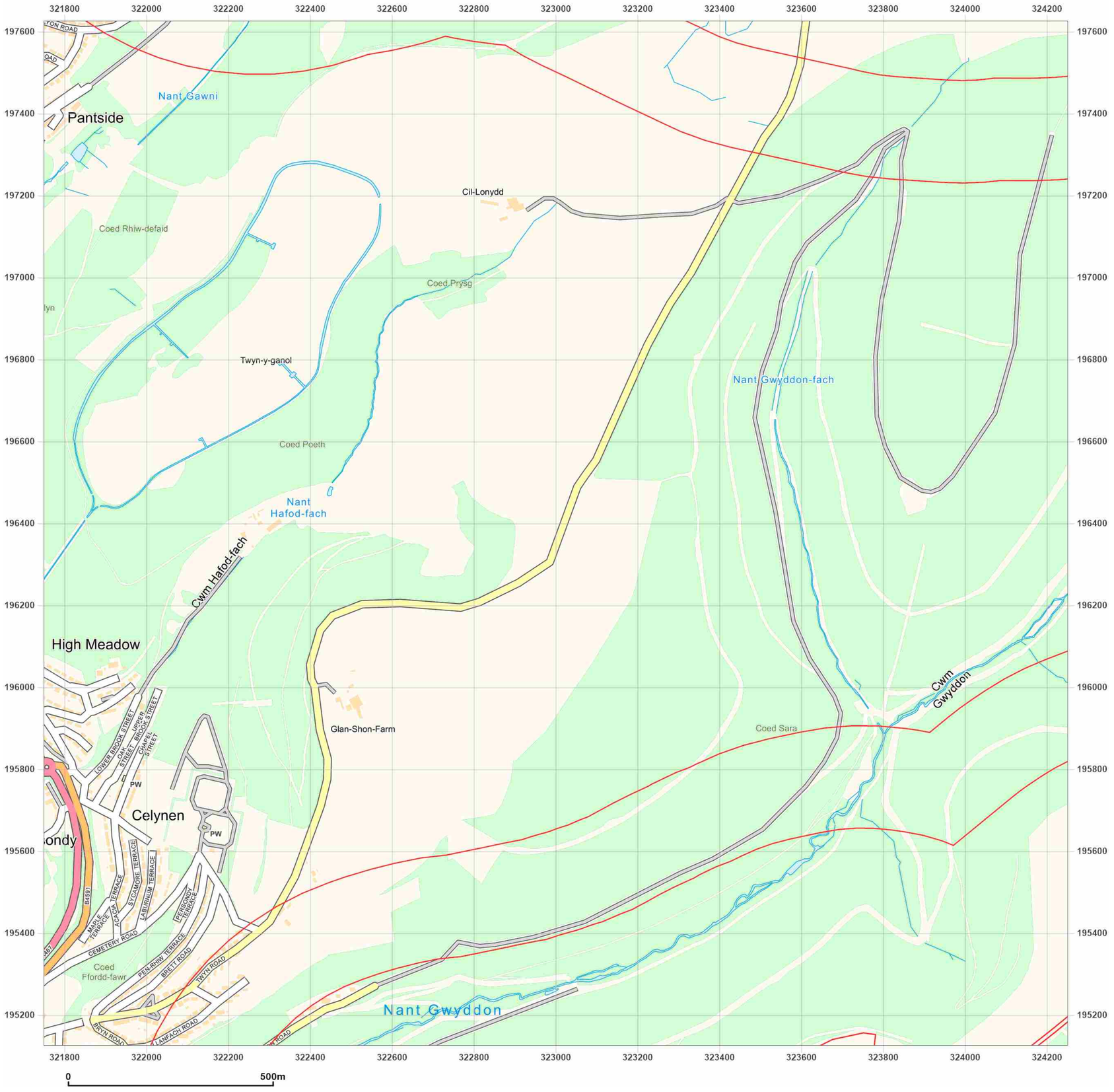
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_2
Grid Ref: 323000, 196376

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

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Groundsure INSIGHTS

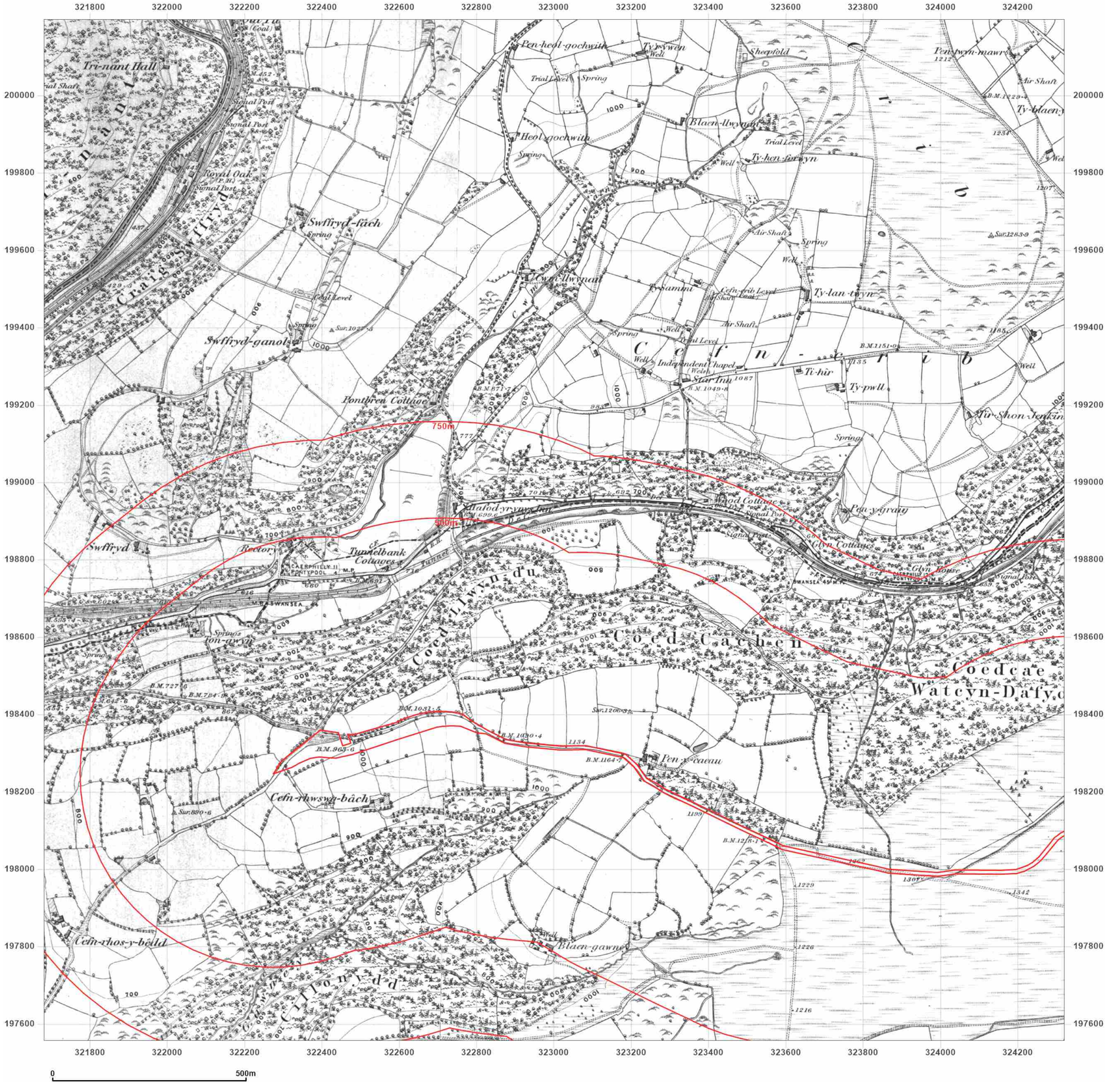
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Production date: 12 September 2025

Map legend available at:
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

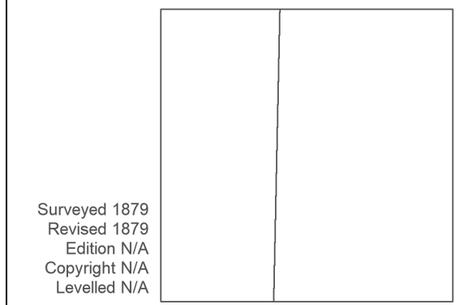
Map Name: County Series

Map date: **1879-1881**

Scale: 1:10,560

Printed at: 1:10,560

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Groundsure INSIGHTS

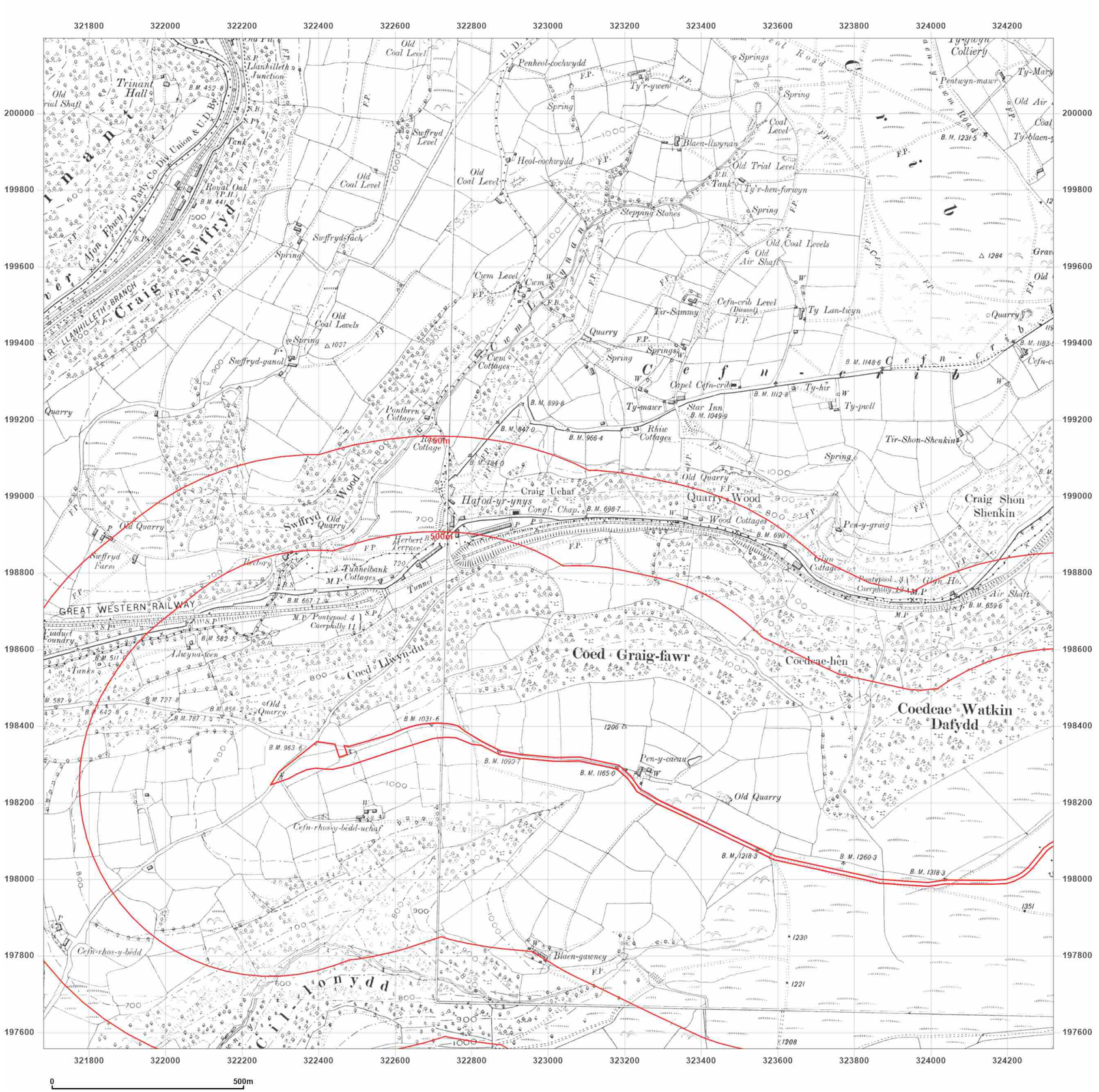
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

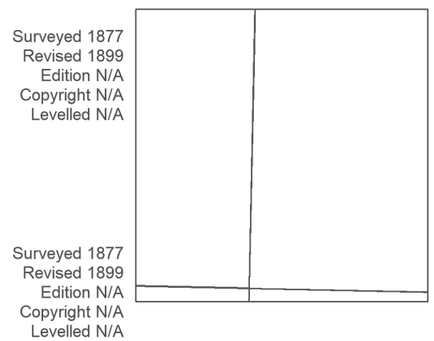
Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

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Groundsure INSIGHTS

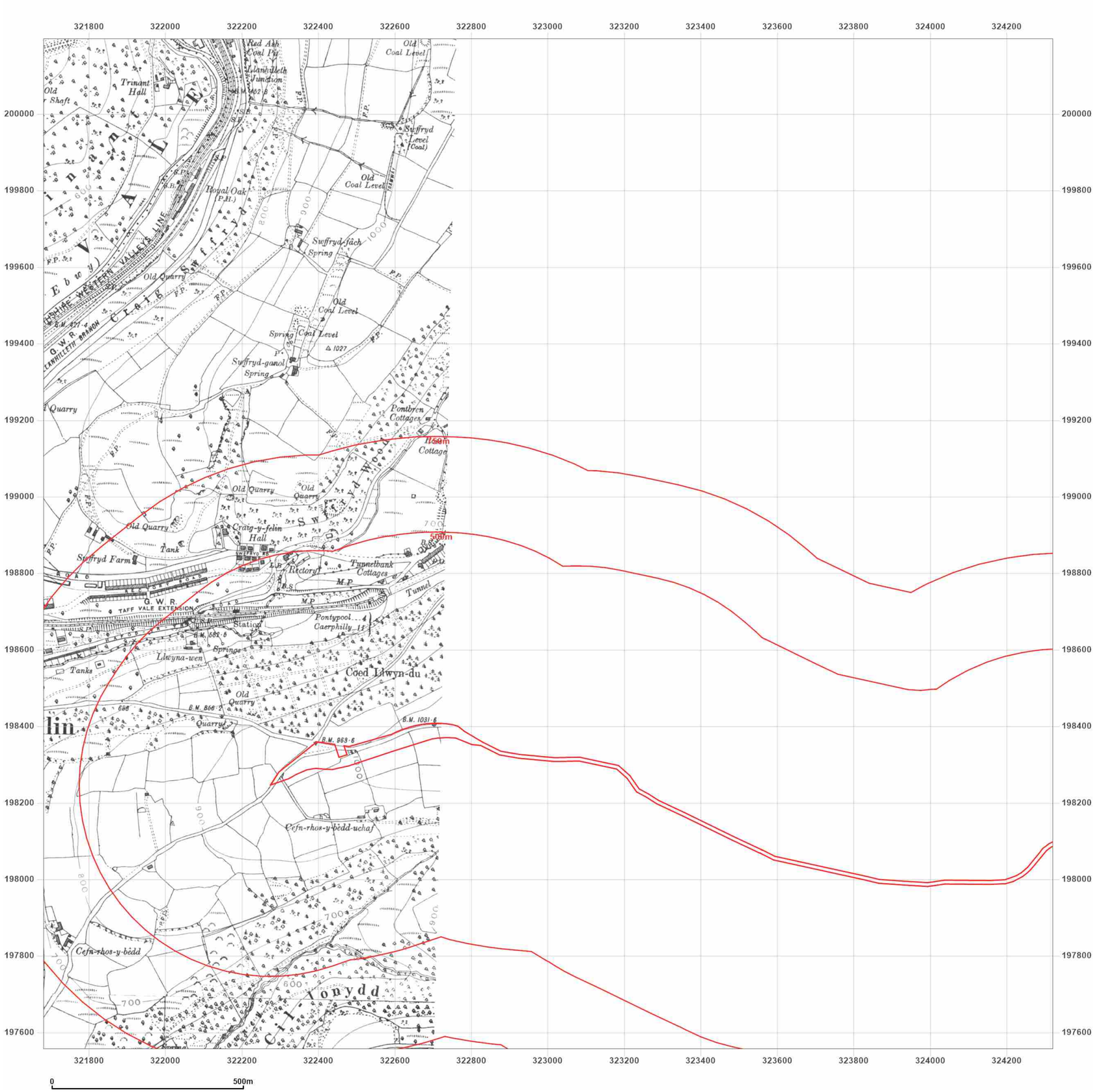
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

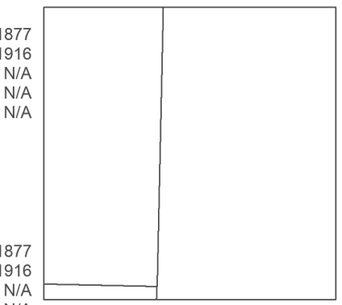
Map Name: County Series

Map date: **1916**

Scale: 1:10,560

Printed at: 1:10,560

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Groundsure INSIGHTS

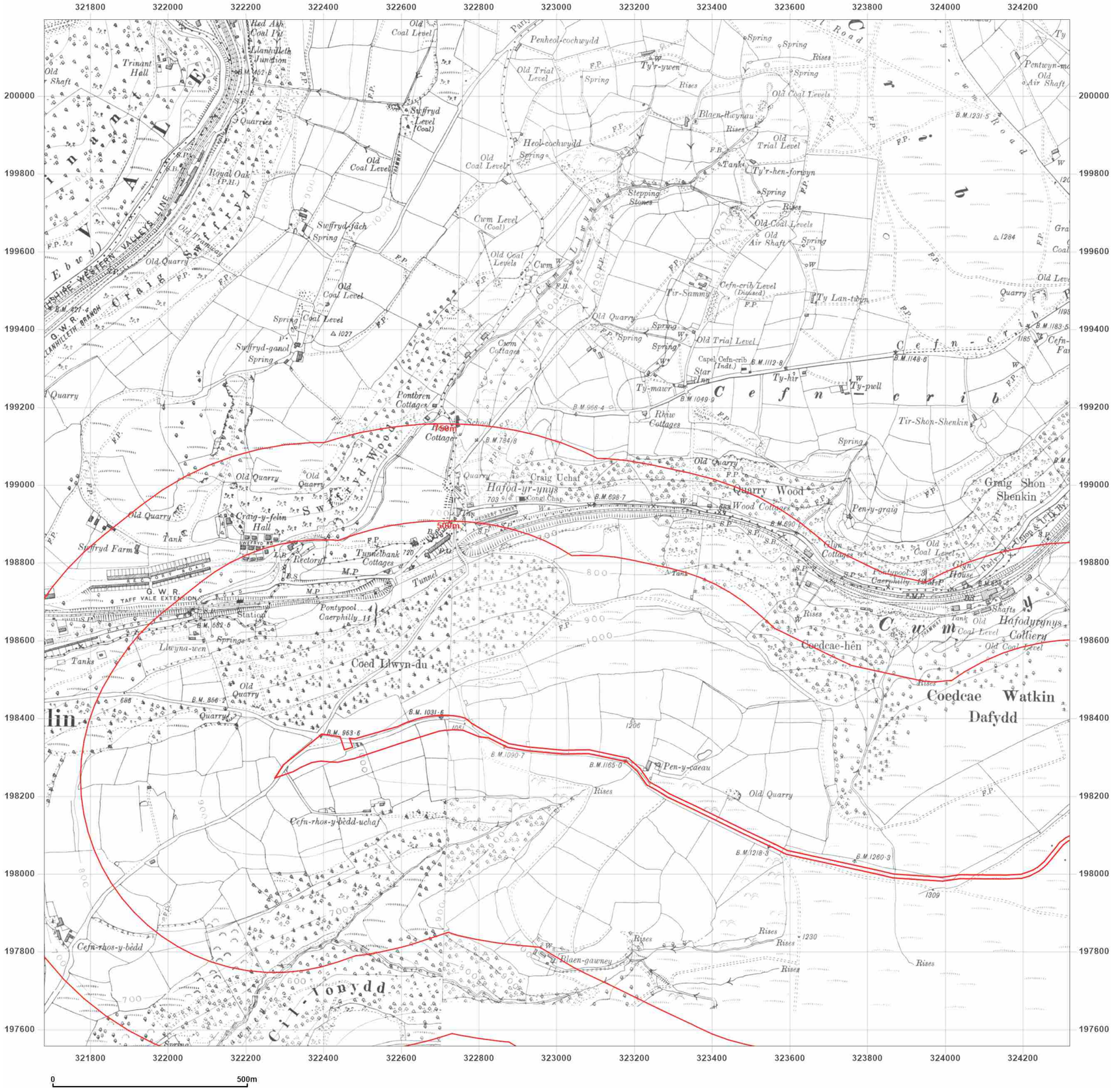
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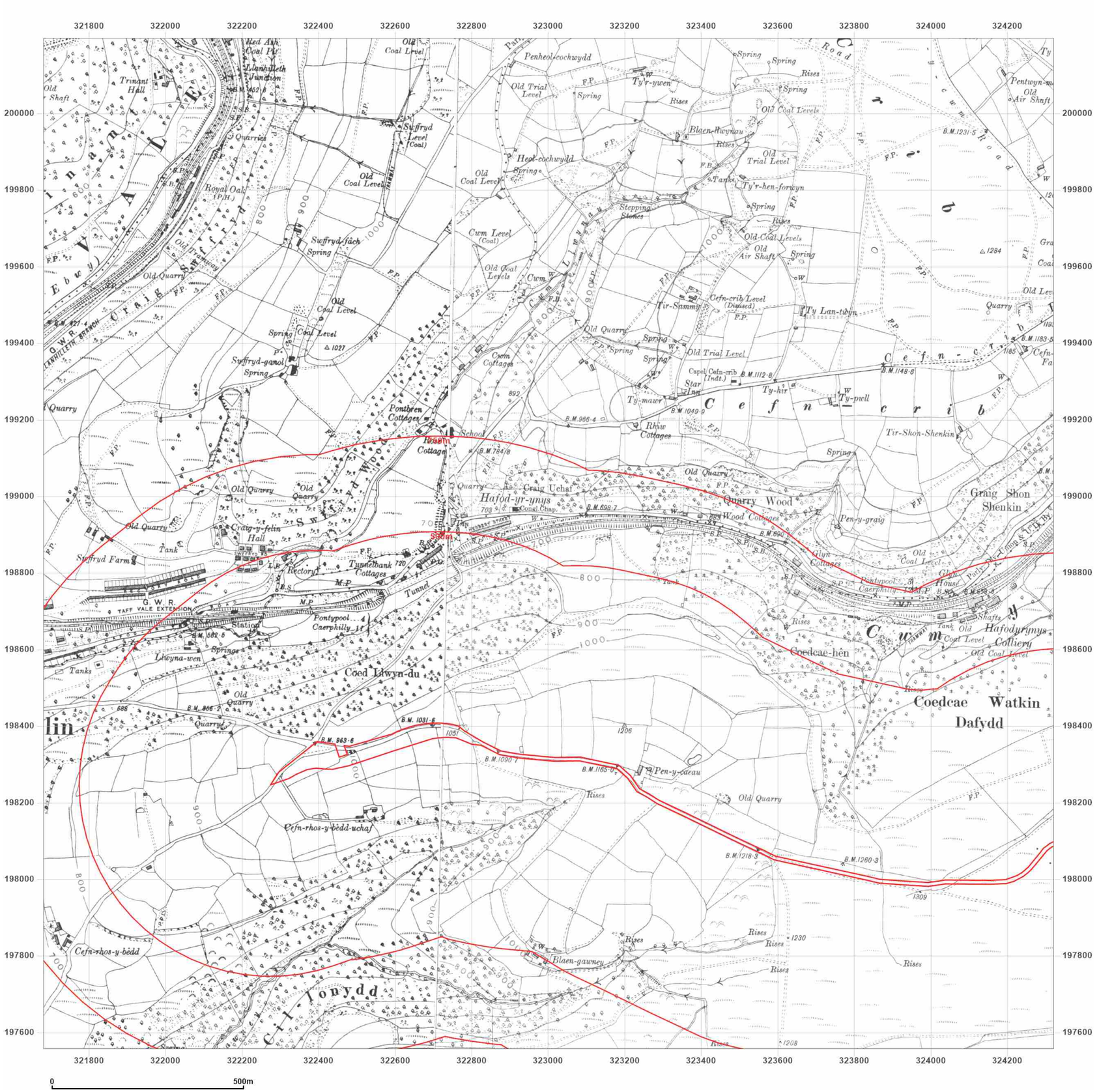
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198600
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198200
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197800
197600
Rhyswg
Craig Uchaf
Hafod-yr-ynys
Quarry Wood
Craig Shon
Shenkin
Coedcae Watkin
Dafydd
Coed Llwyn-du
Cefn-rhos-y-bedd-uchaf
Cefn-rhos-y-bedd
Pen-y-caeau
Tir-Shon-Shenkin
Ty'r-hen-forwyn
Ty-hir
Ty-pwll
Ty-mawr
Tir-Sammy
Ty Lan-tirion
Pontbren Cottages
Rhaw Cottages
Cwm Cottages
Wood Cottages
Pen-y-graig
Coedcae-hên
Heol-cochwydd
Penheol-cochwydd
Suffryd Farm
Suffryd-fach Spring
Suffryd-ganol Spring
Royal Oak (P.H.)
Craig-y-felin Hall
Trinant Hall
Llanwyna-wen
Pontypool Caerphilly
Tunnelbank Cottages
Rectory
Tunnel
Old Quarry
Old Coal Level
Old Trial Level
Old Coal Levels
Old Air Shaft
Cwm Level (Coal)
Cefn-crib Level (Disused)
Capel Cefn-crib (Indt.)
Stepping Stones
Rises
Spring
Tank
Quarry
Cwm Colliery
Hafodyrynys Colliery
Glyn House
Elim
Cefn-crib
Cwm
Craig
Ebwy
Vale
Taff
Suffryd Wood
Quarry Wood
Old Suffryd Level (Coal)
Old Trial Level
Old Coal Levels
Old Air Shaft
Cefn-crib Level (Disused)
Capel Cefn-crib (Indt.)
Old Quarry
Old Coal Level
Cwm Level (Coal)
Old Coal Levels
Old Trial Level
Old Coal Levels
Old Air Shaft
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Old Coal Level
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Old Coal Level
Old Coal Levels
Old Coal Level
Old Coal Levels
Old Coal Level
Old Coal Levels



wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

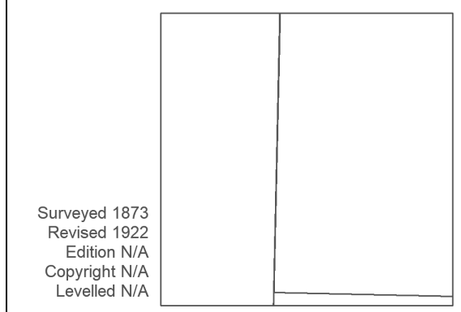
Map Name: County Series

Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

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Groundsure INSIGHTS

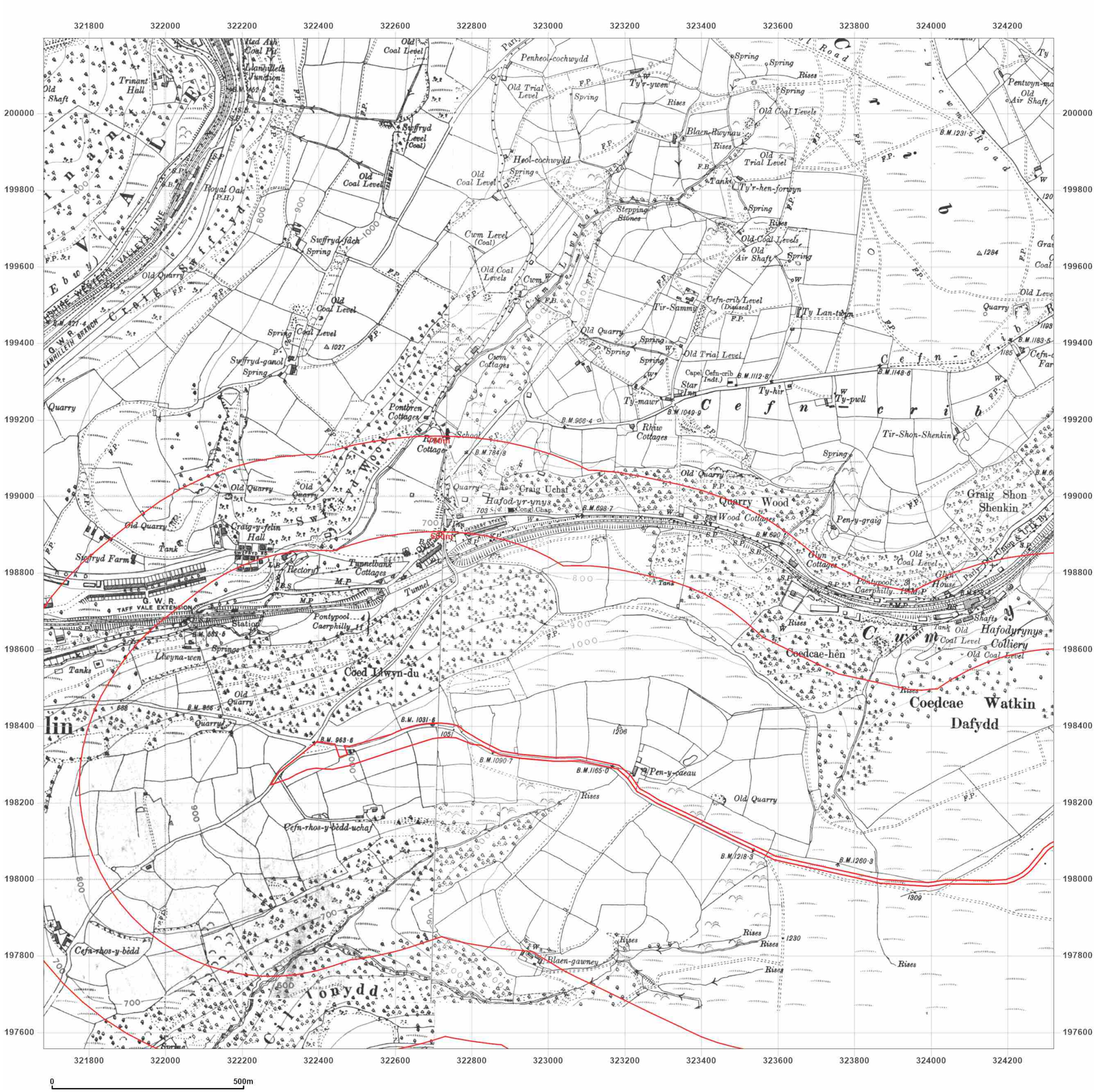
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

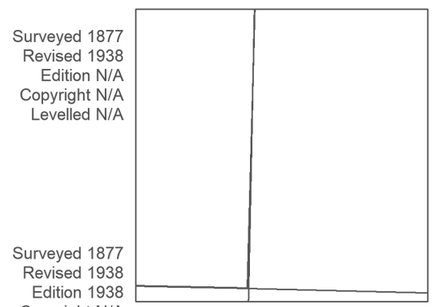
Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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Groundsure INSIGHTS

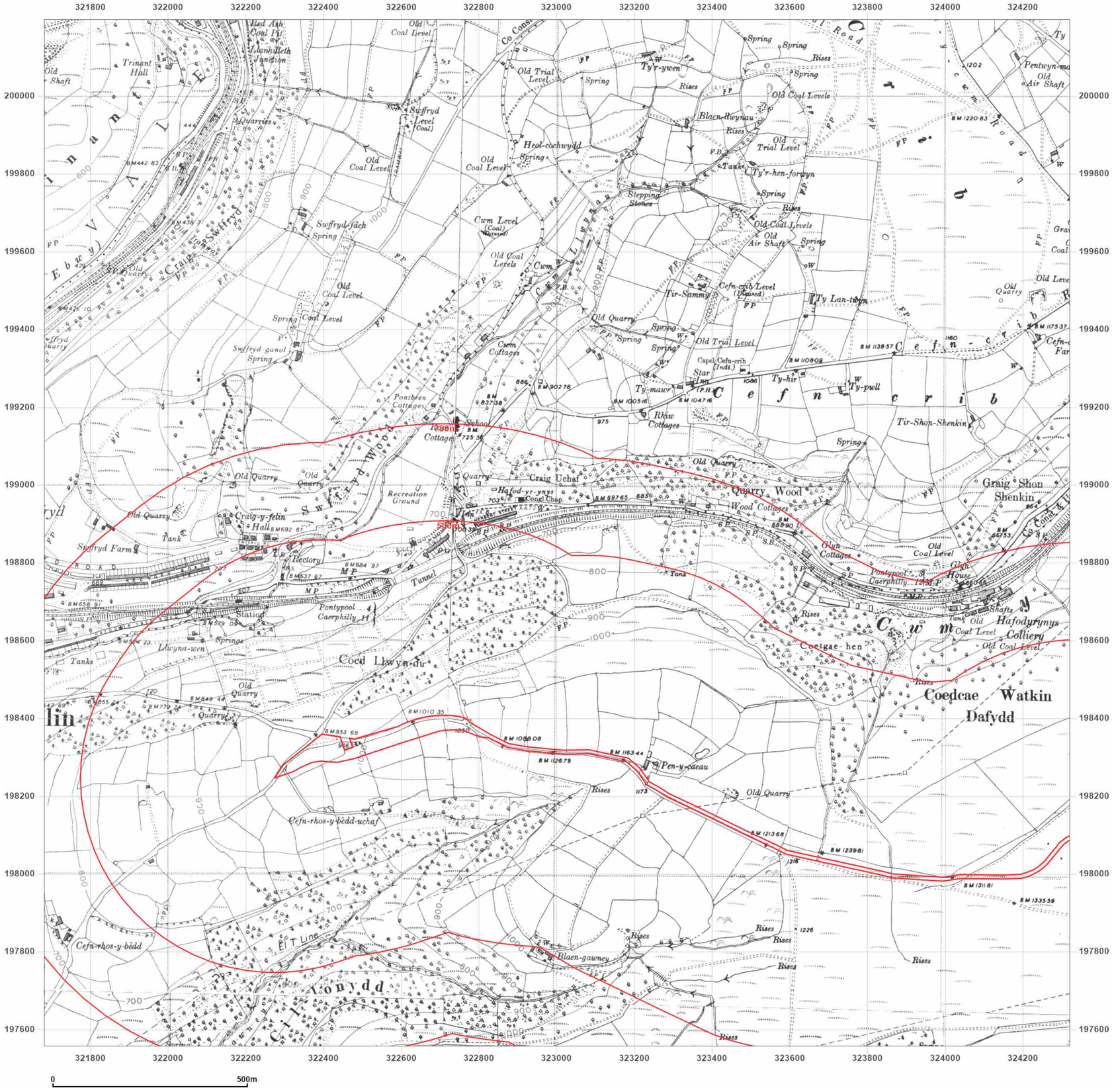
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

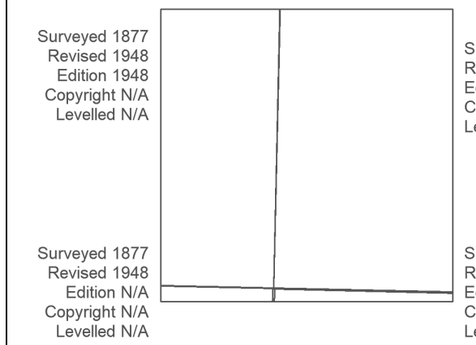
Map Name: County Series

Map date: **1948-1949**

Scale: 1:10,560

Printed at: 1:10,560

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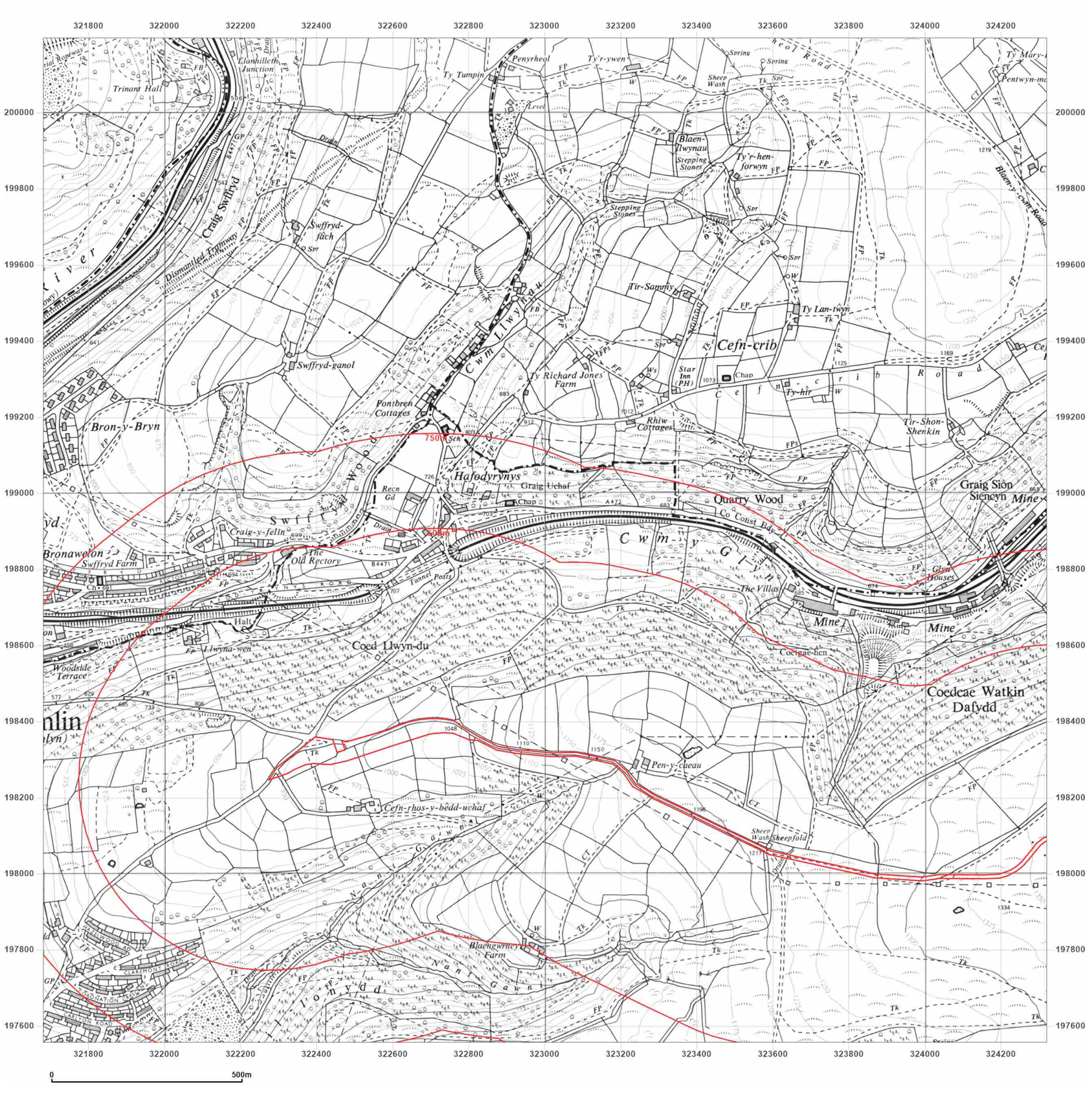
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

Map Name: Provisional

Map date: **1965**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

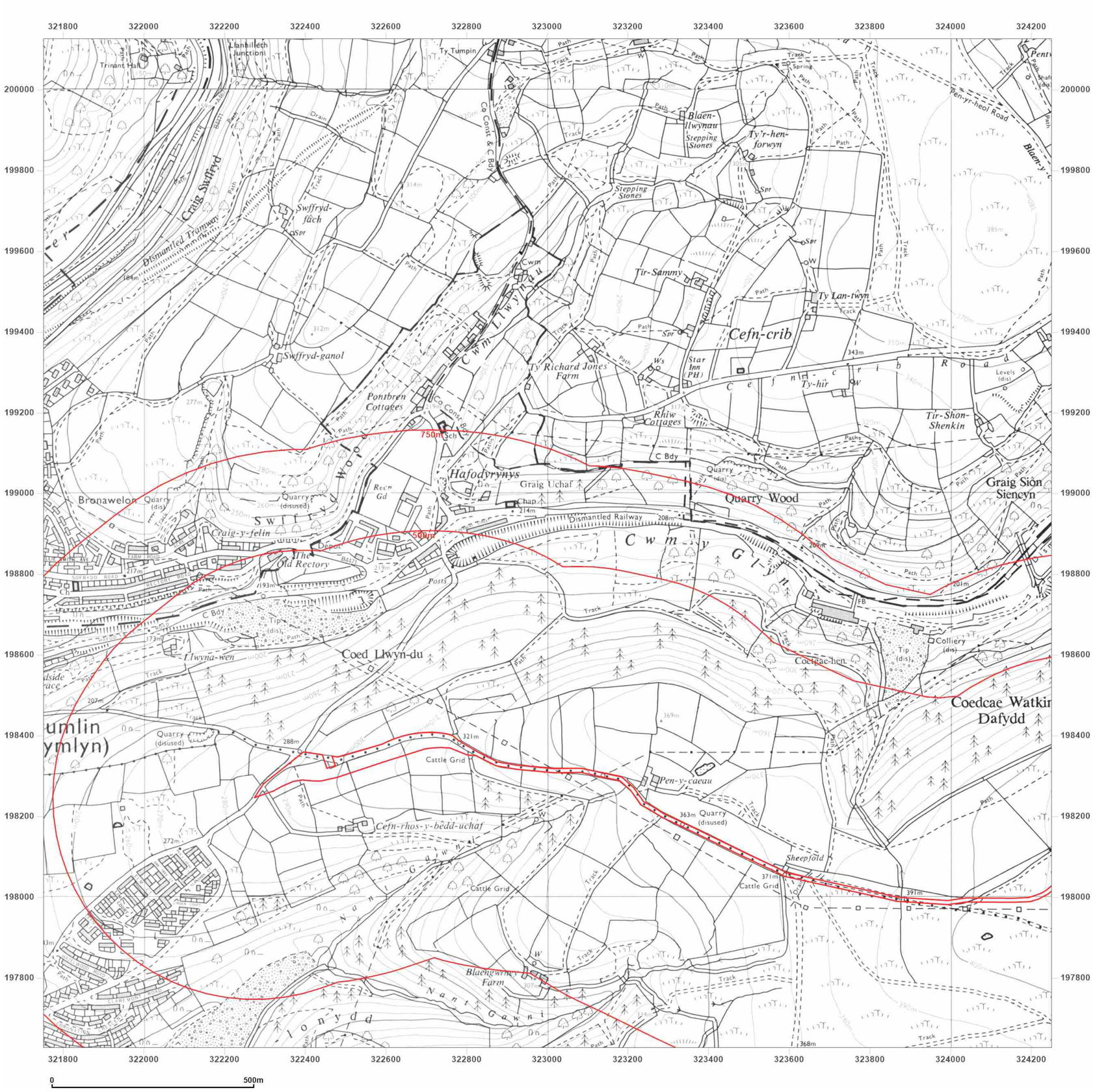
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

Map Name: National Grid

Map date: **1978-1981**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1975
Revised 1978
Edition N/A
Copyright 1978
Levelled 1975

Surveyed 1976
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

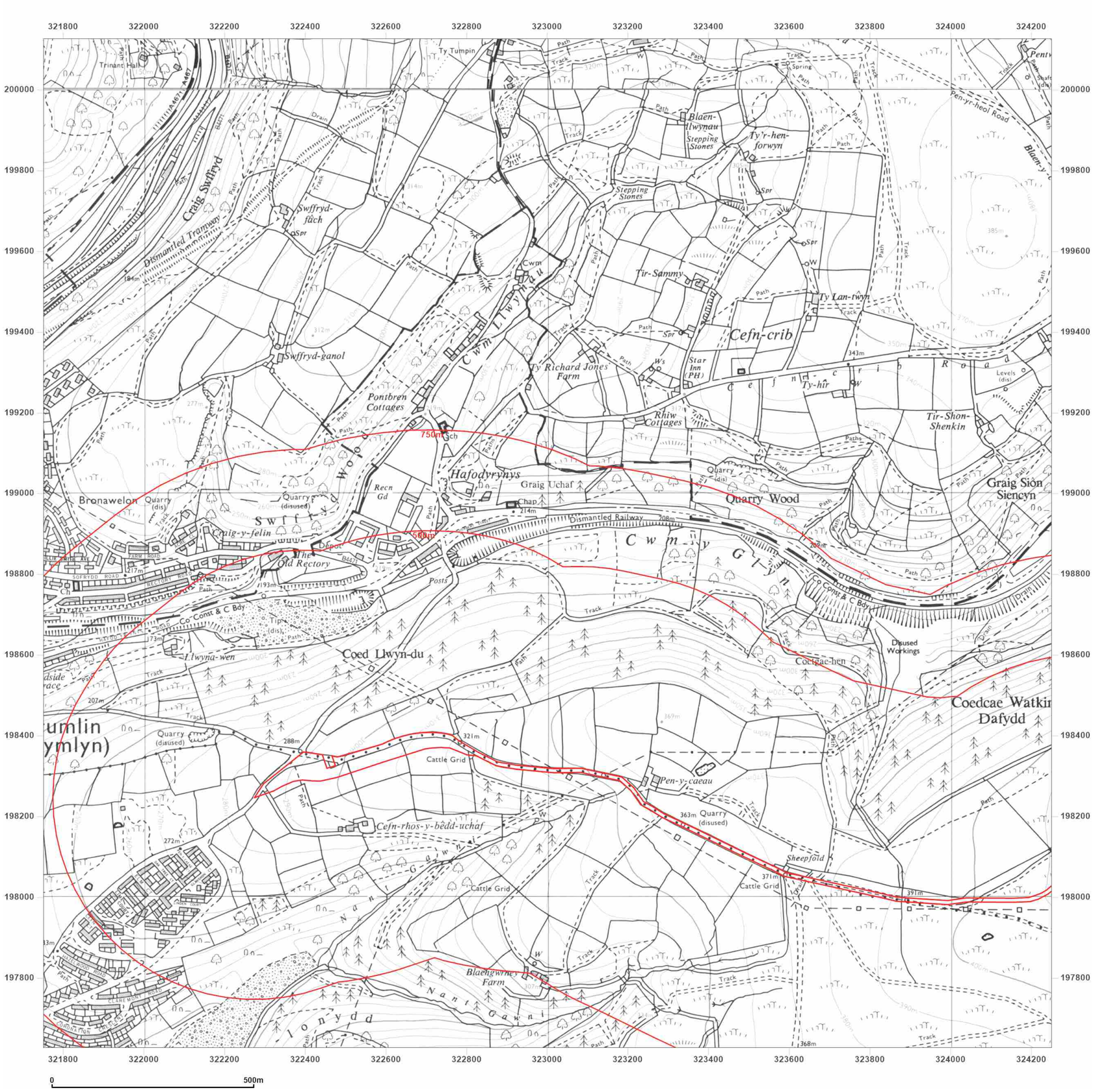
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

Map Name: National Grid

Map date: **1989**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1975
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

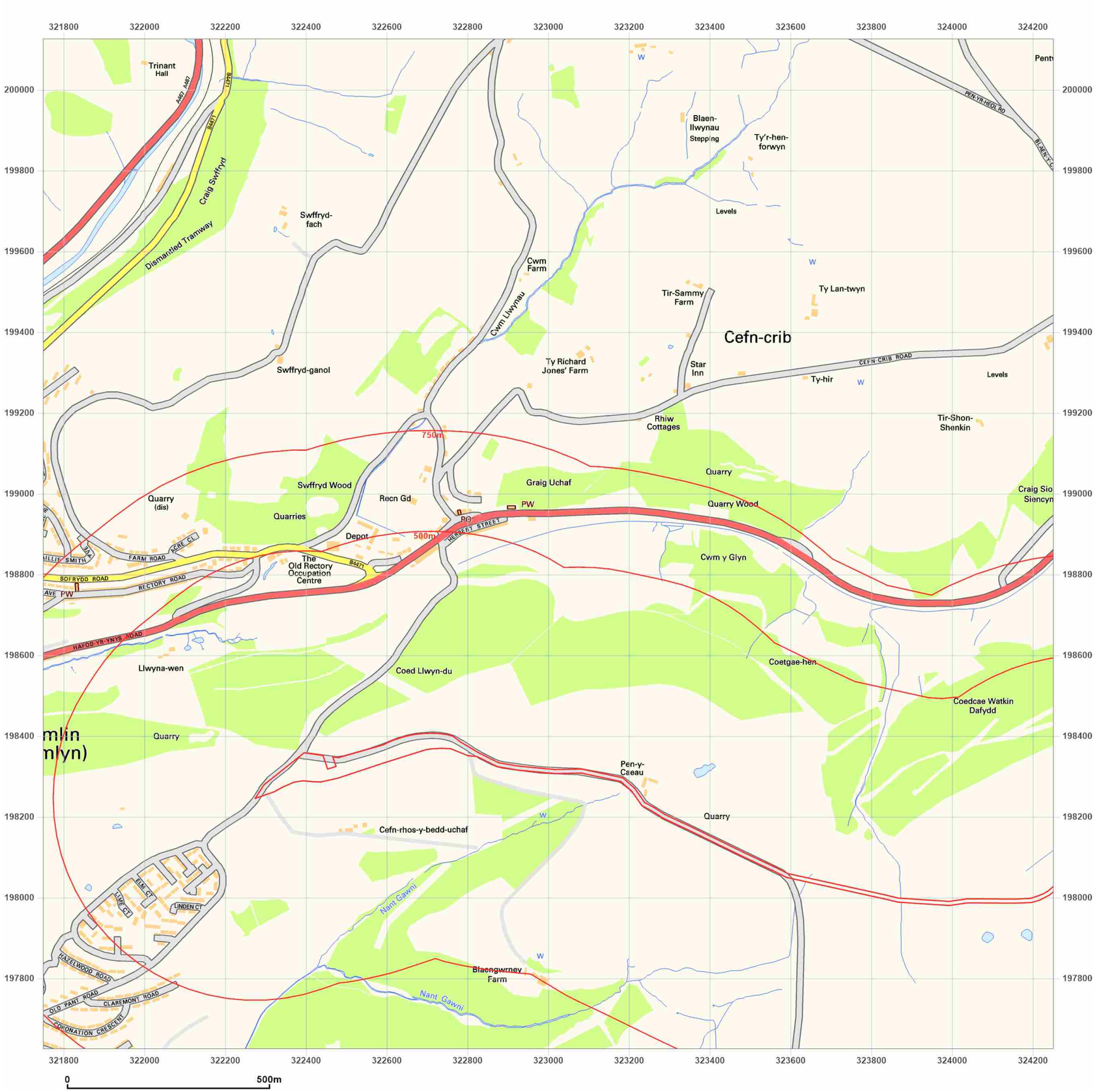
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

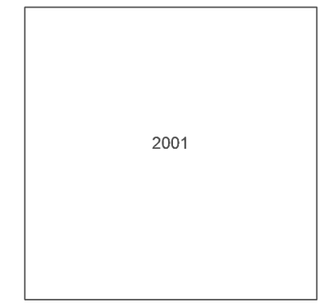
Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S



Groundsure INSIGHTS

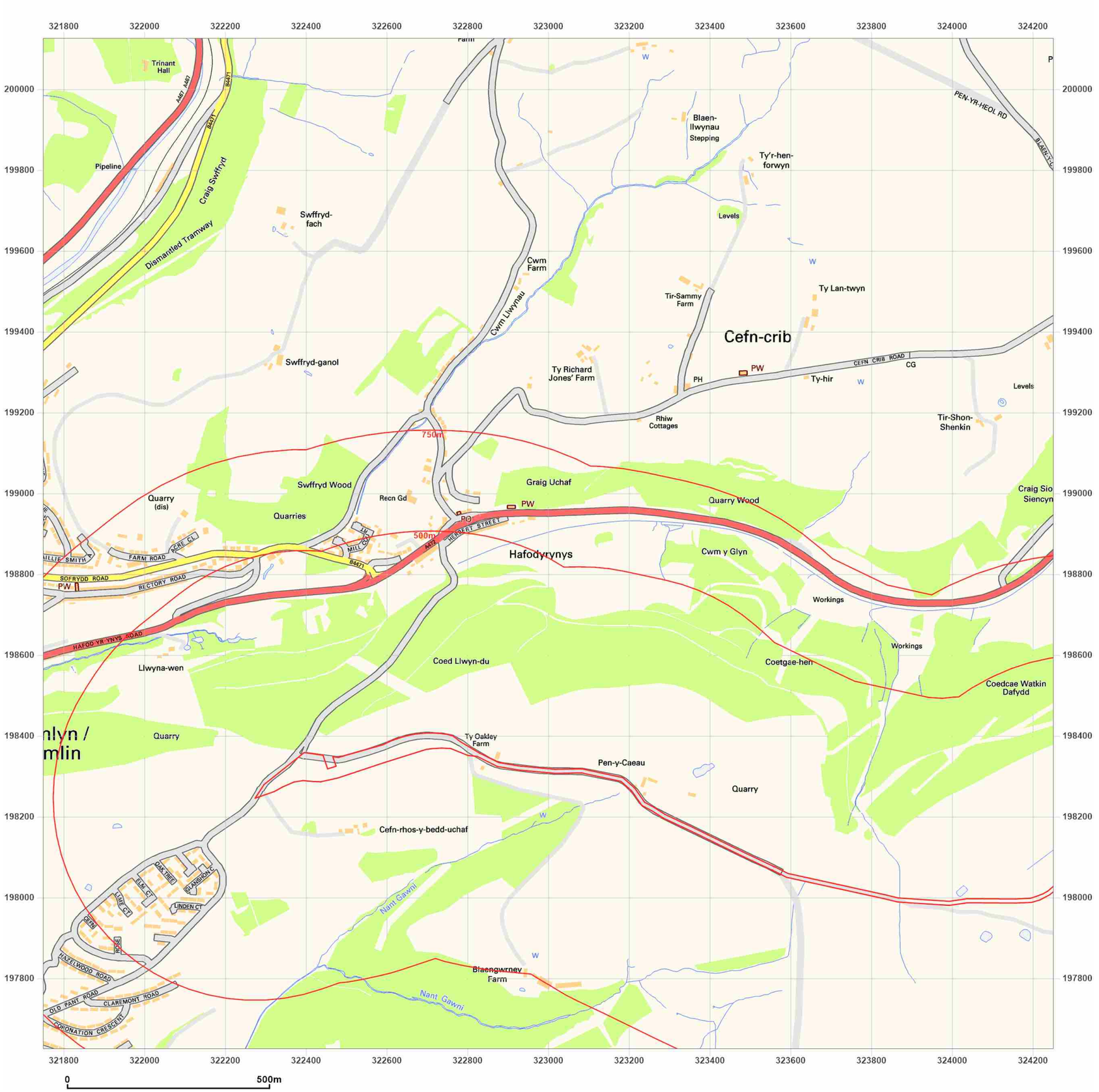
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2010

Groundsure INSIGHTS

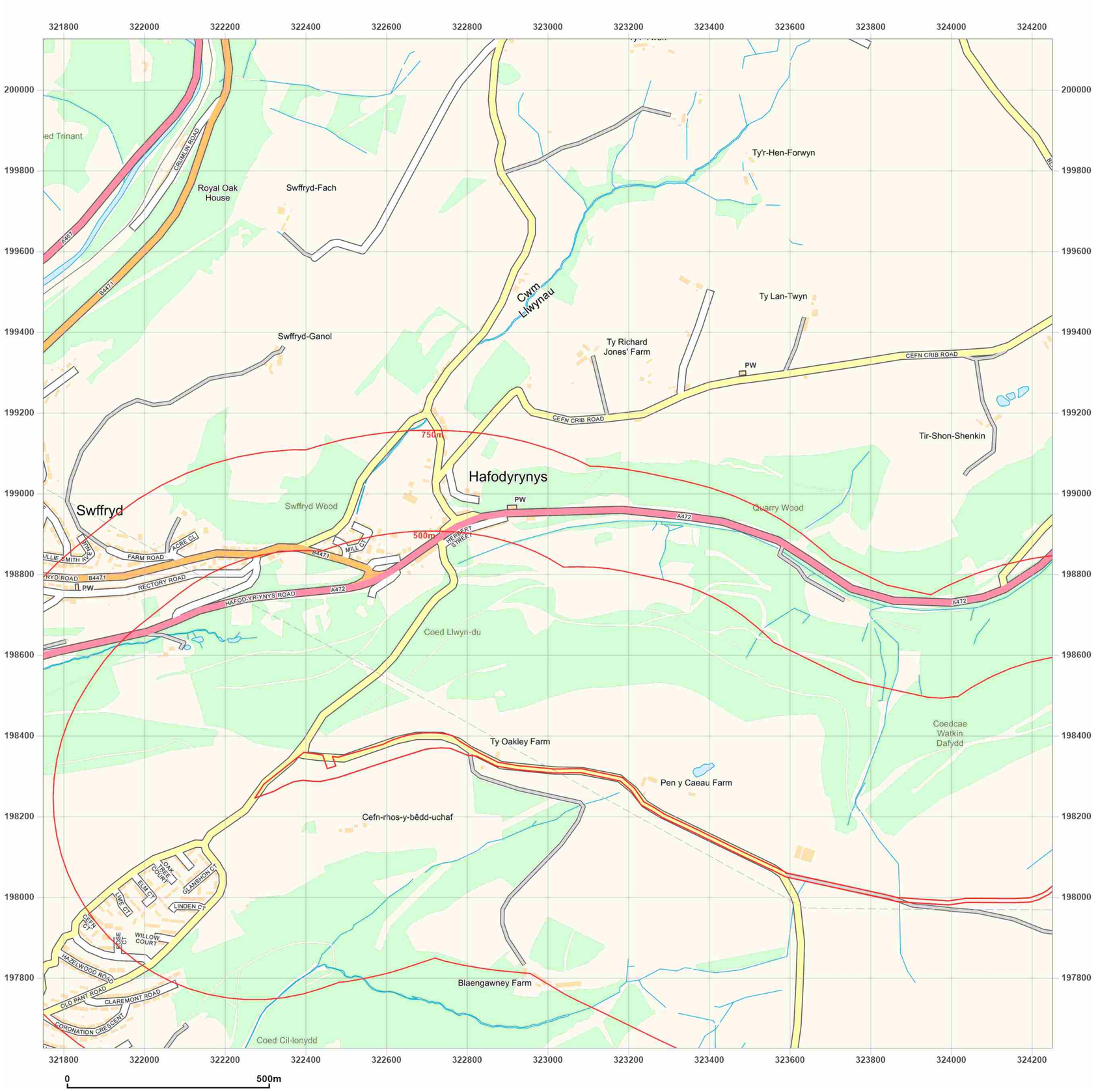
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_1_3
Grid Ref: 323000, 198876

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2025

Groundsure INSIGHTS

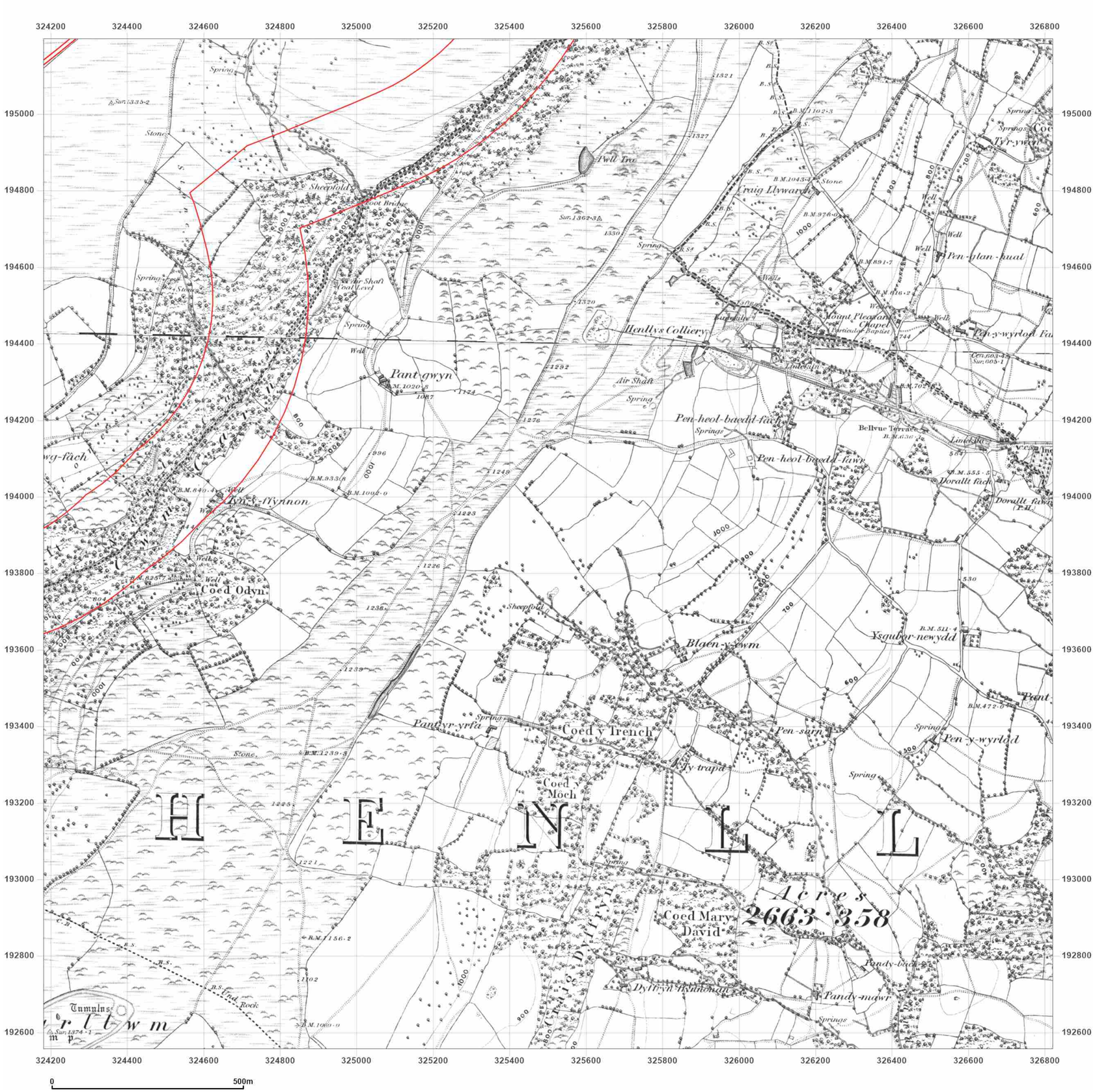
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: County Series

Map date: **1881-1882**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

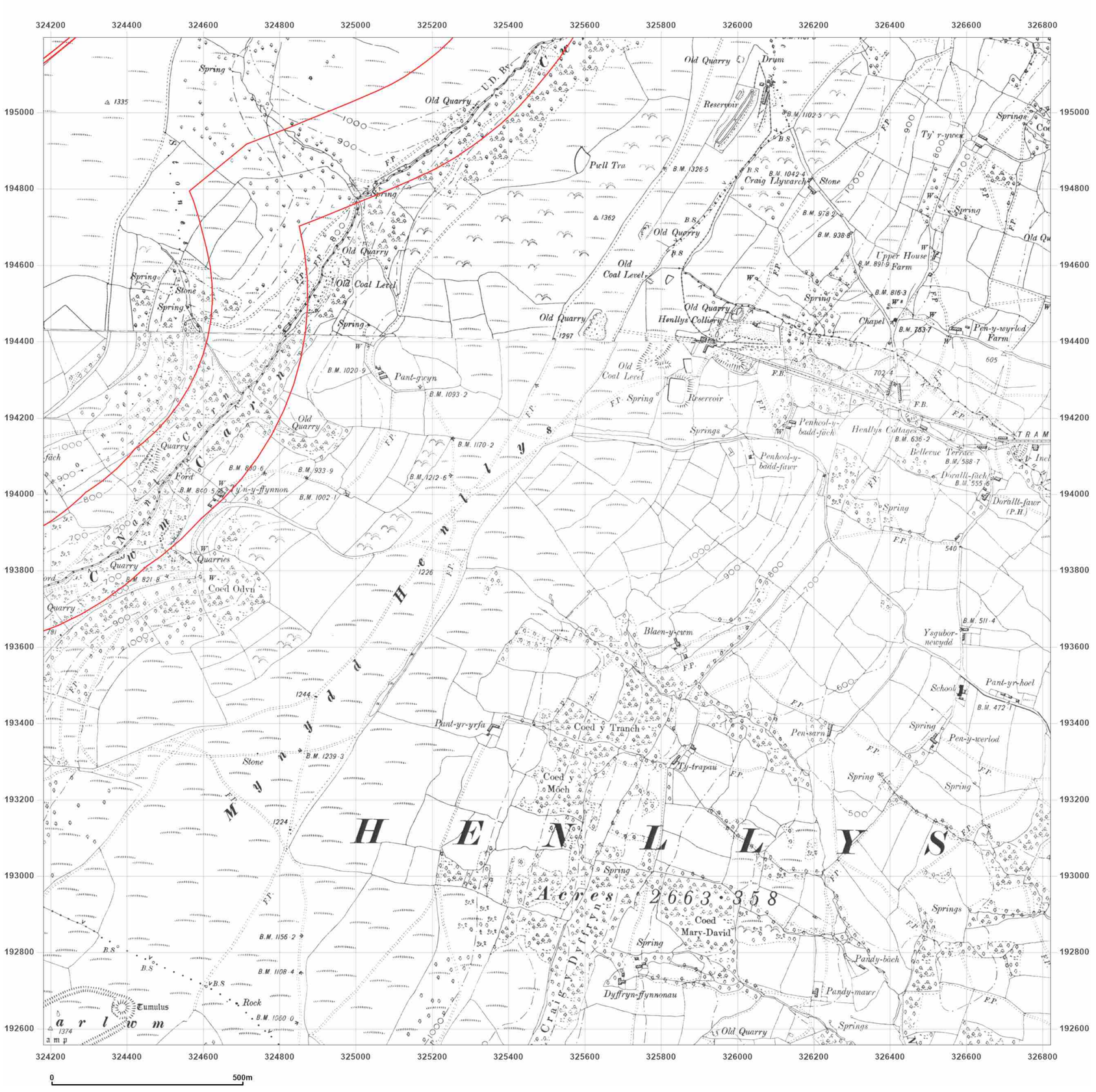
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

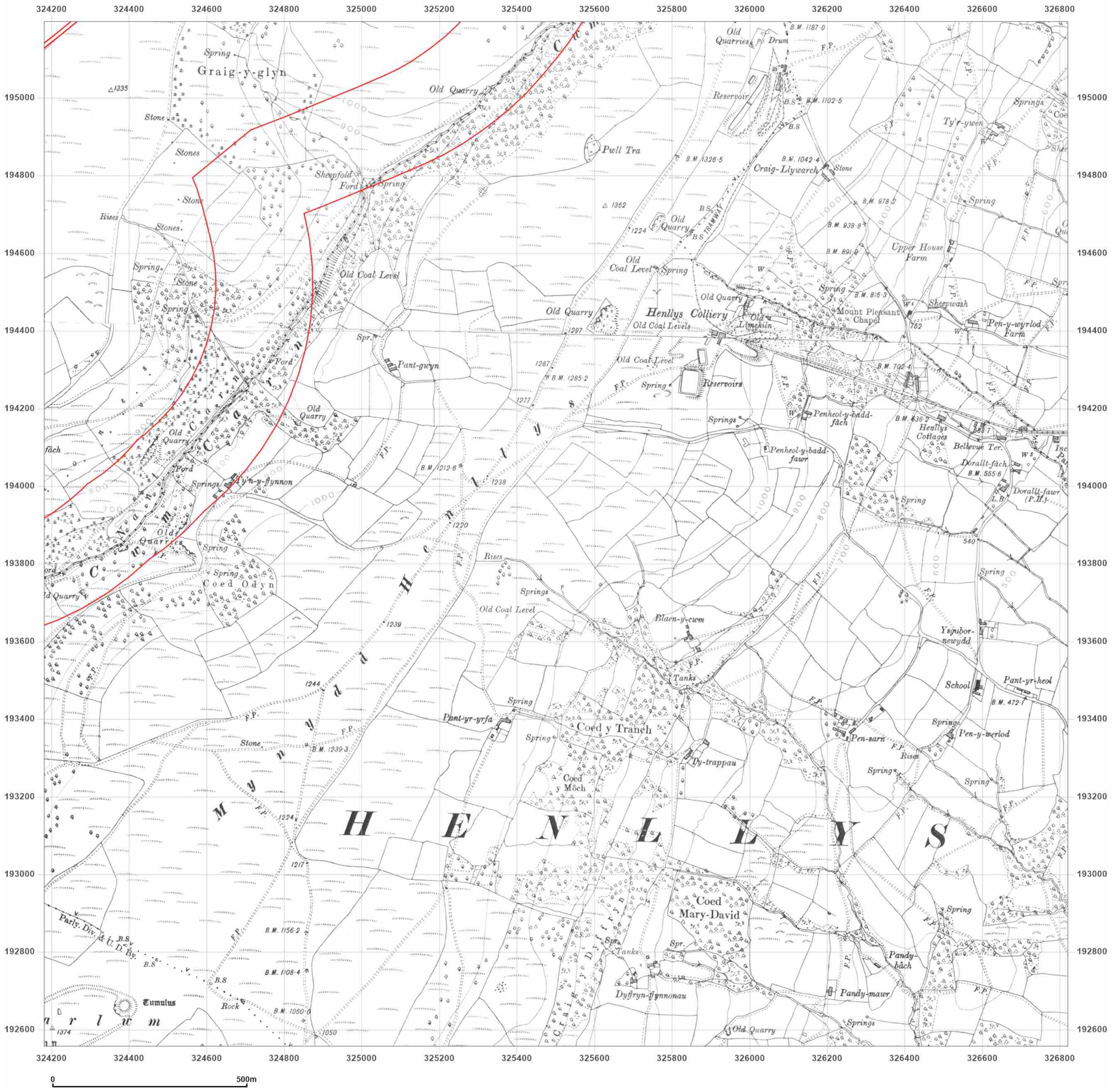
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: County Series

Map date: **1917-1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1922
Edition 1922
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1917
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

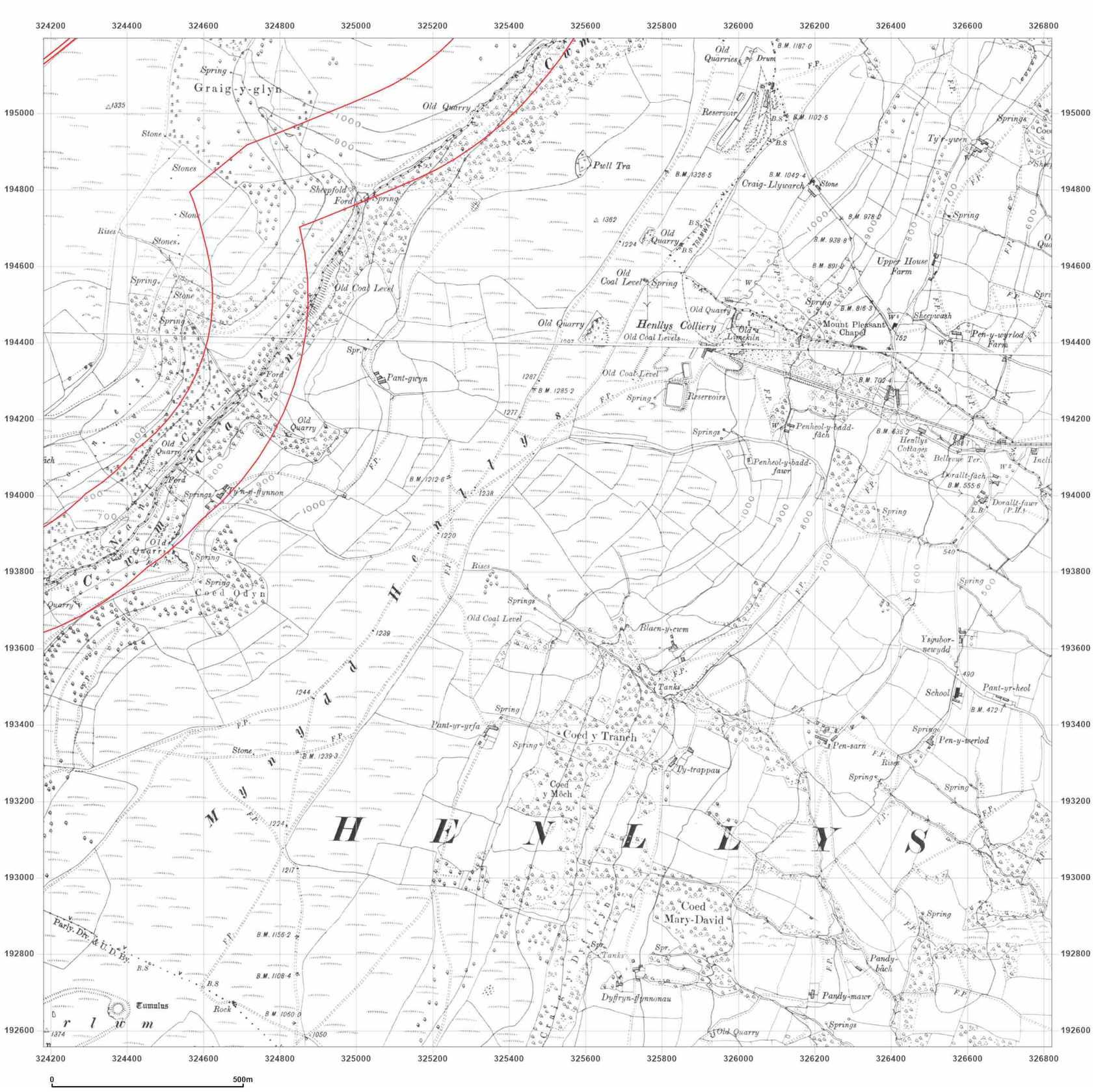
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: County Series

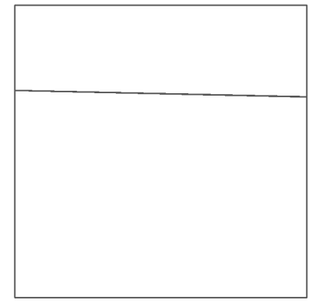
Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1881
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

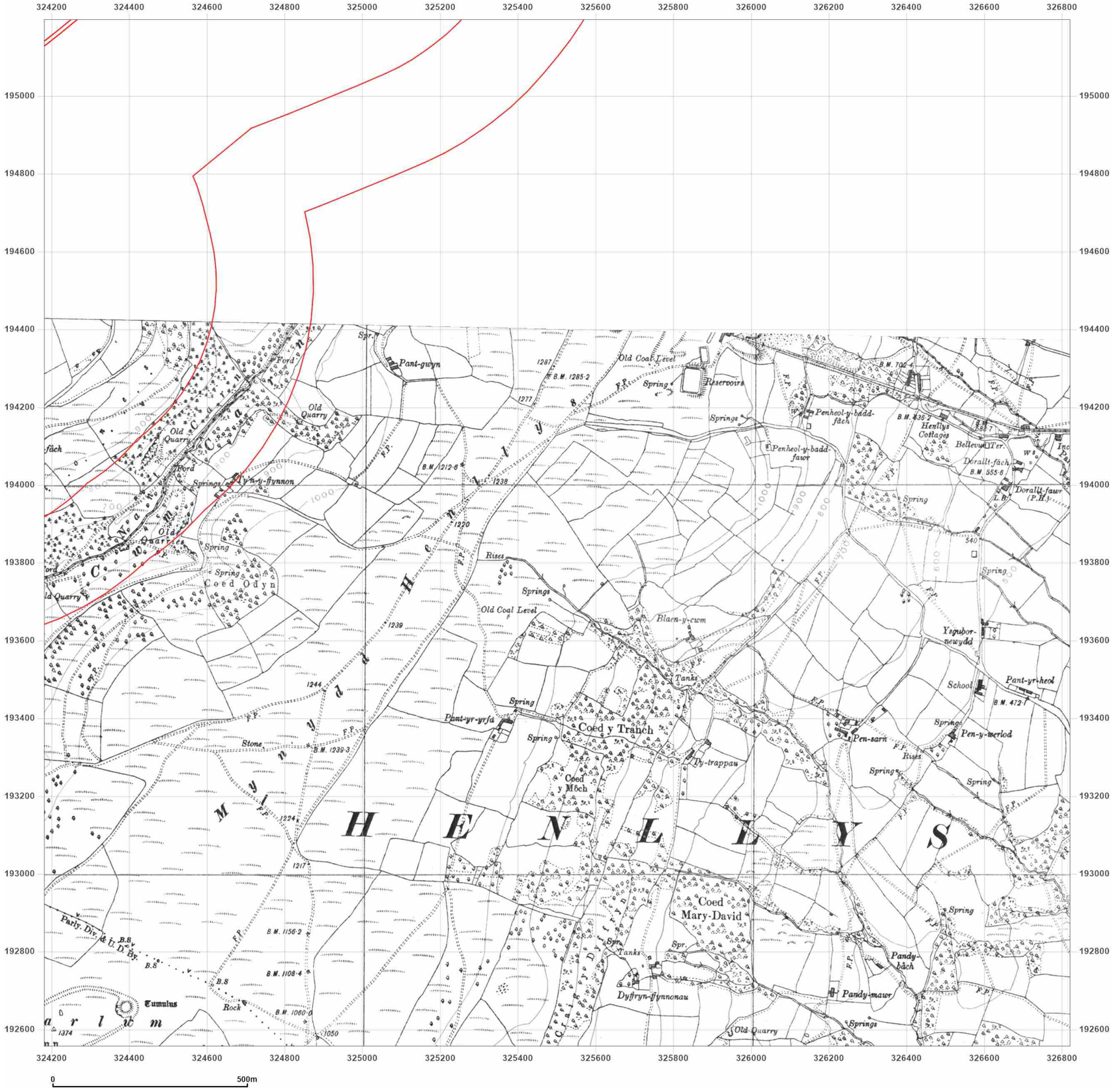
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Production date: 12 September 2025

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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

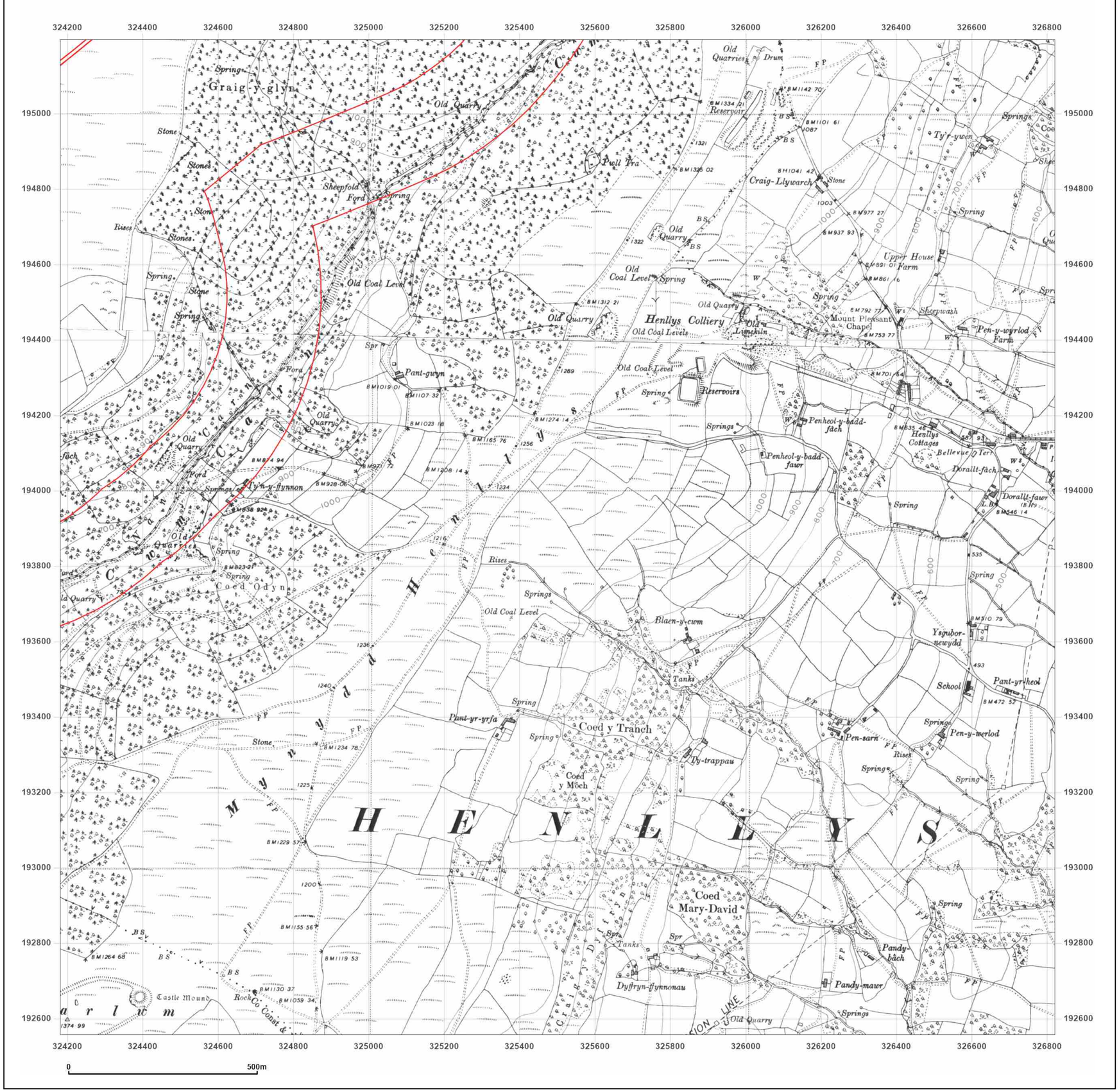
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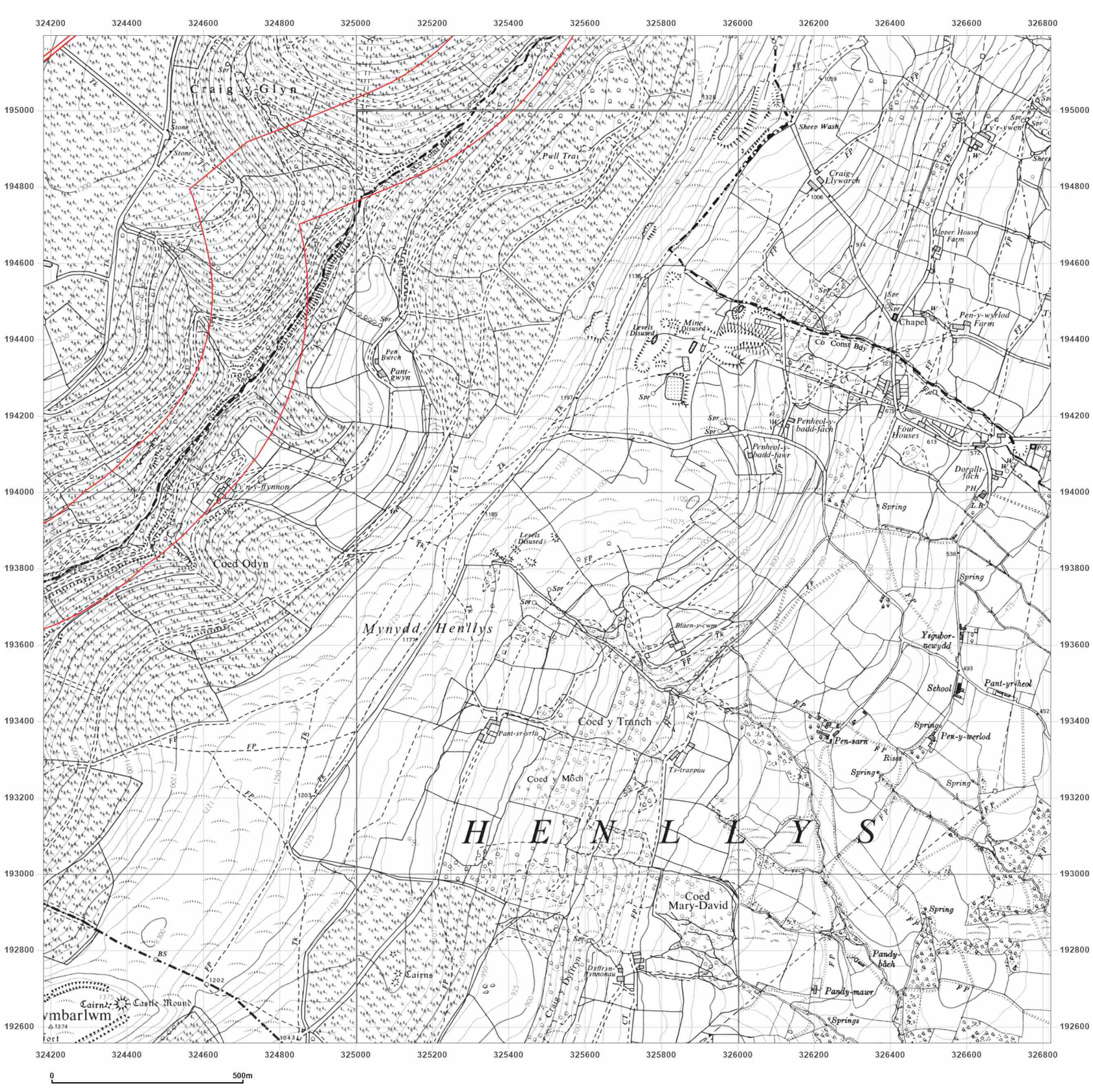
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Production date: 12 September 2025

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H E N L L Y S
Graig-y-glyn
Craig-Llywarch
Henllys Colliery
Old Coal Levels
Coed Mary-David
Coed y Tranch
Coed y Môch
Coed Odyn
Pant-gwyn
Ty'n-y-flynnon
Penheol-y-badd-fach
Penheol-y-badd-fawr
Mount Pleasant Chapel
Upper House Farm
Pen-y-werlod Farm
Pen-y-werlod
Pen-sarn
Pant-yr-yrfa
Pant-yr-heol
Dy-trappau
Blaen-y-cwm
Ysgubor-newydd
Dyffryn-fynnonau
Pandy-bach
Pandy-mawr
Henllys Cottages
Bellevue Terr
Doraliit-fach
Doraliit-fawr
Old Quarries
Old Quarry
Old Coal Level
Reservoirs
Reservoir
Limekiln
Sheepwash
Castle Mound
Rock Co. Const. d
Tanks
School
Springs
Spring
Stone
Stones
Rises
Ford
Sheepfold
Pwll Tra
Ty'n-ywen
Cwm Nant-y-Caerau
Nant-y-Caerau
Nant-y-Caerau-fach
Nant-y-Coed-Hendy
Craig-y-Dyffryn
Old Quarry
Old Coal Level
Old Quarries
Old Quarry
Old Coal Level
Old Quarry
Old Coal Level
Old Quarry
Old Quarry
Old Quarry



Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: Provisional

Map date: **1963-1965**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1949
Revised 1963
Edition N/A
Copyright 1965
Levelled N/A

Surveyed N/A
Revised 1963
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1949
Revised 1963
Edition N/A
Copyright 1964
Levelled N/A

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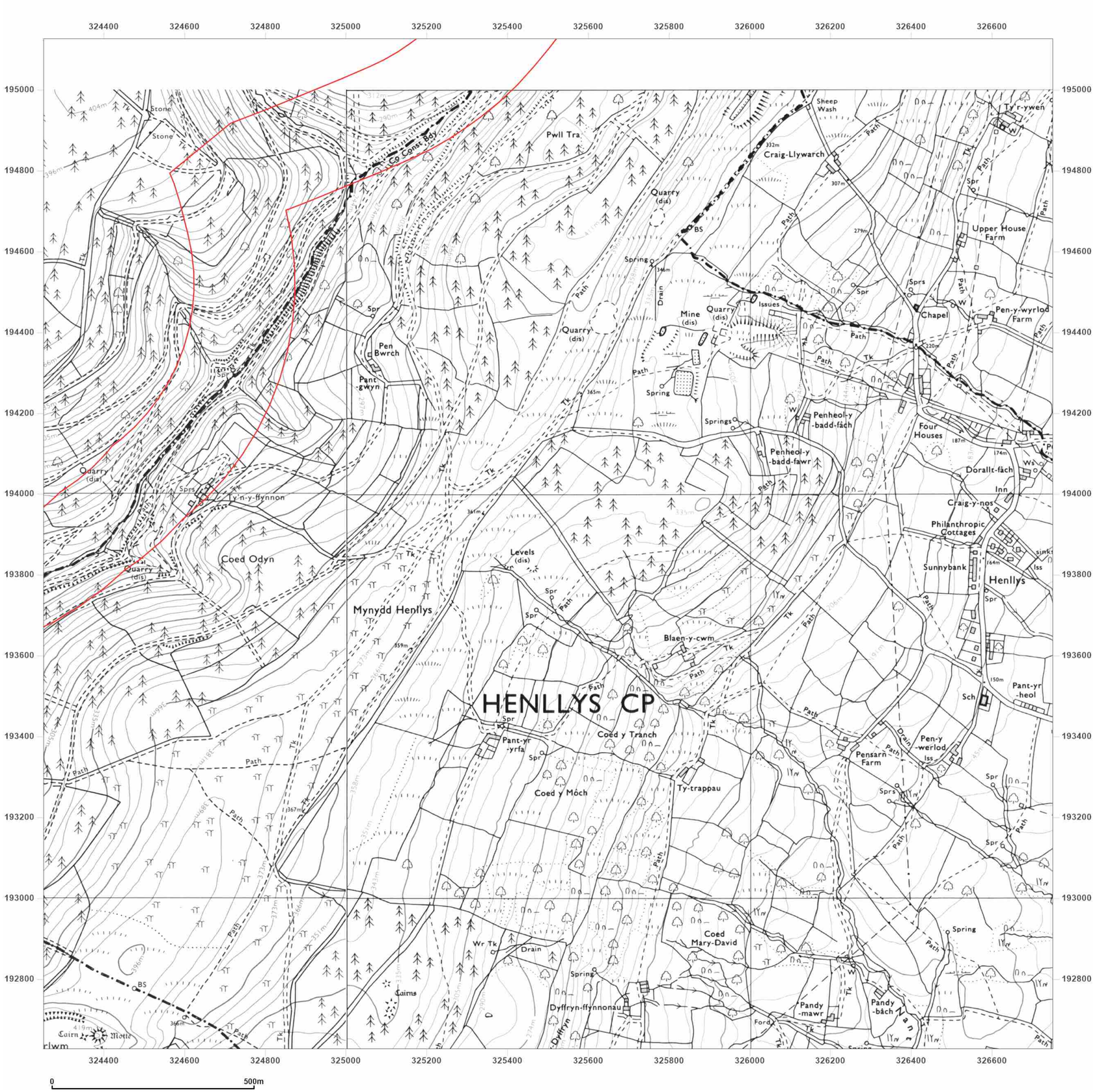
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: National Grid

Map date: **1970-1971**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1970
Revised 1970
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1971
Revised 1971
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

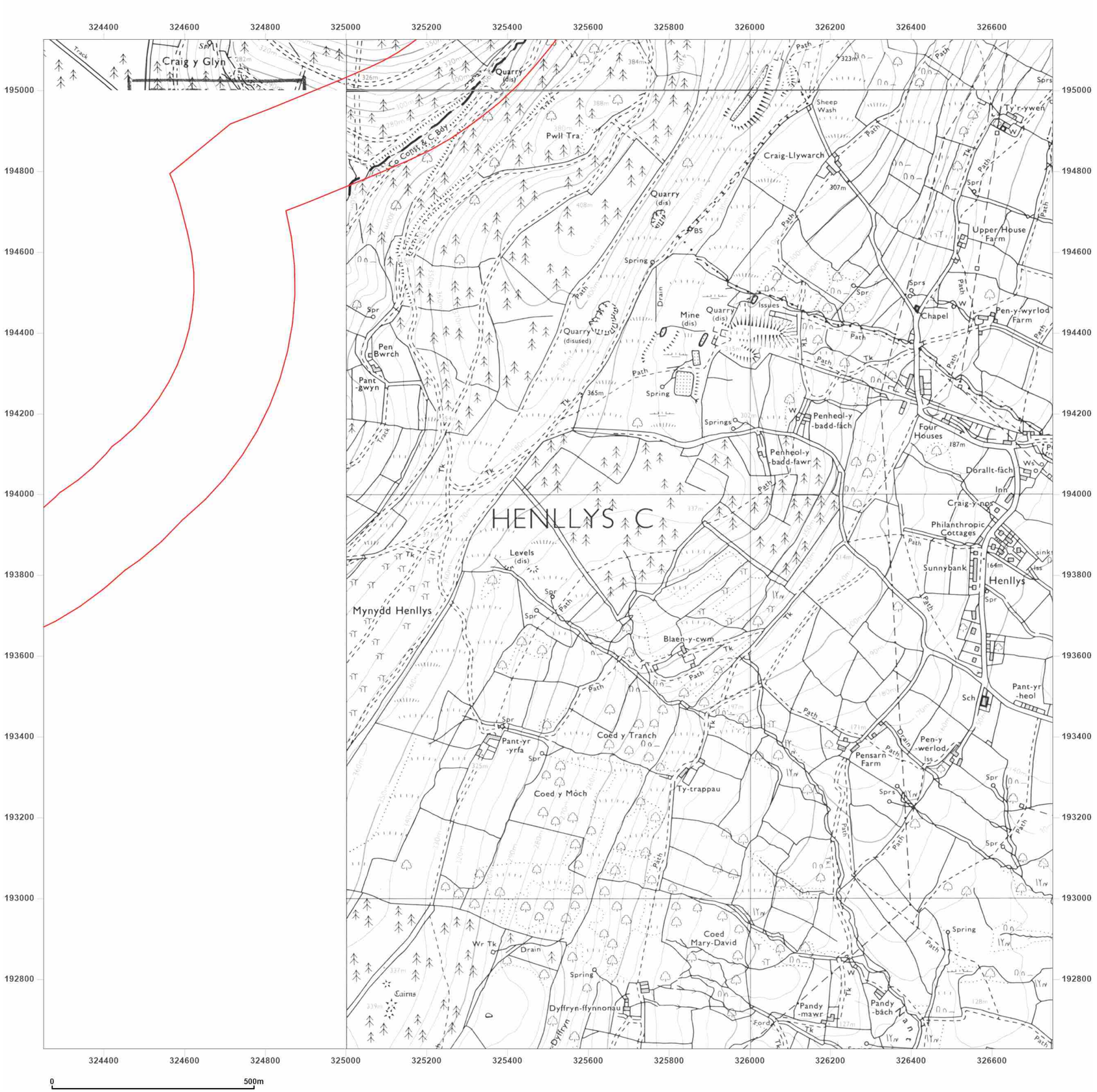
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: National Grid

Map date: **1981-1983**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1976
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1981
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1983
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

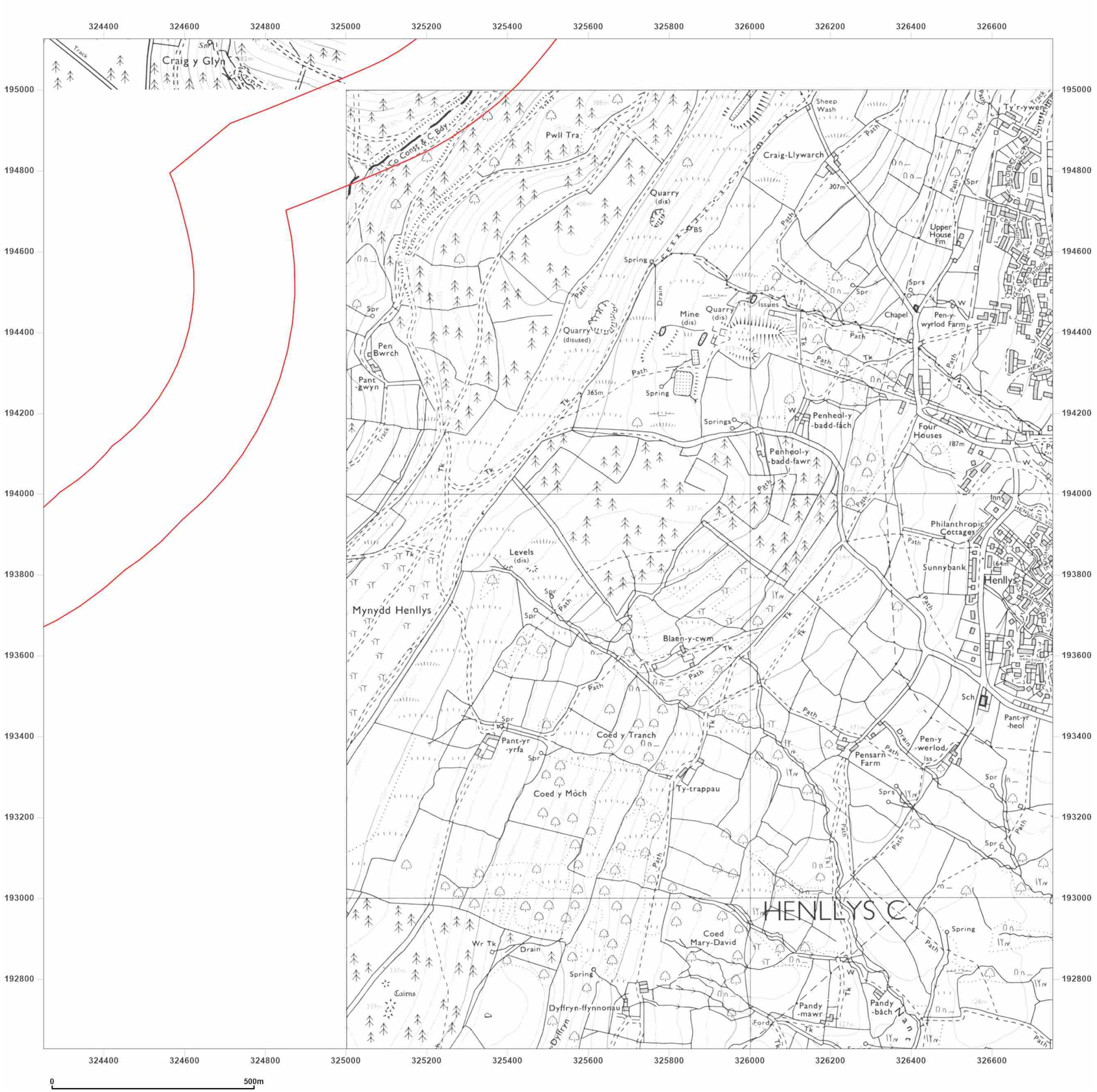
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: National Grid

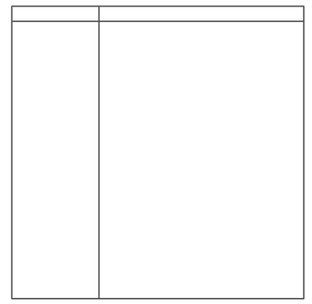
Map date: **1989-1992**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1976
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1991
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

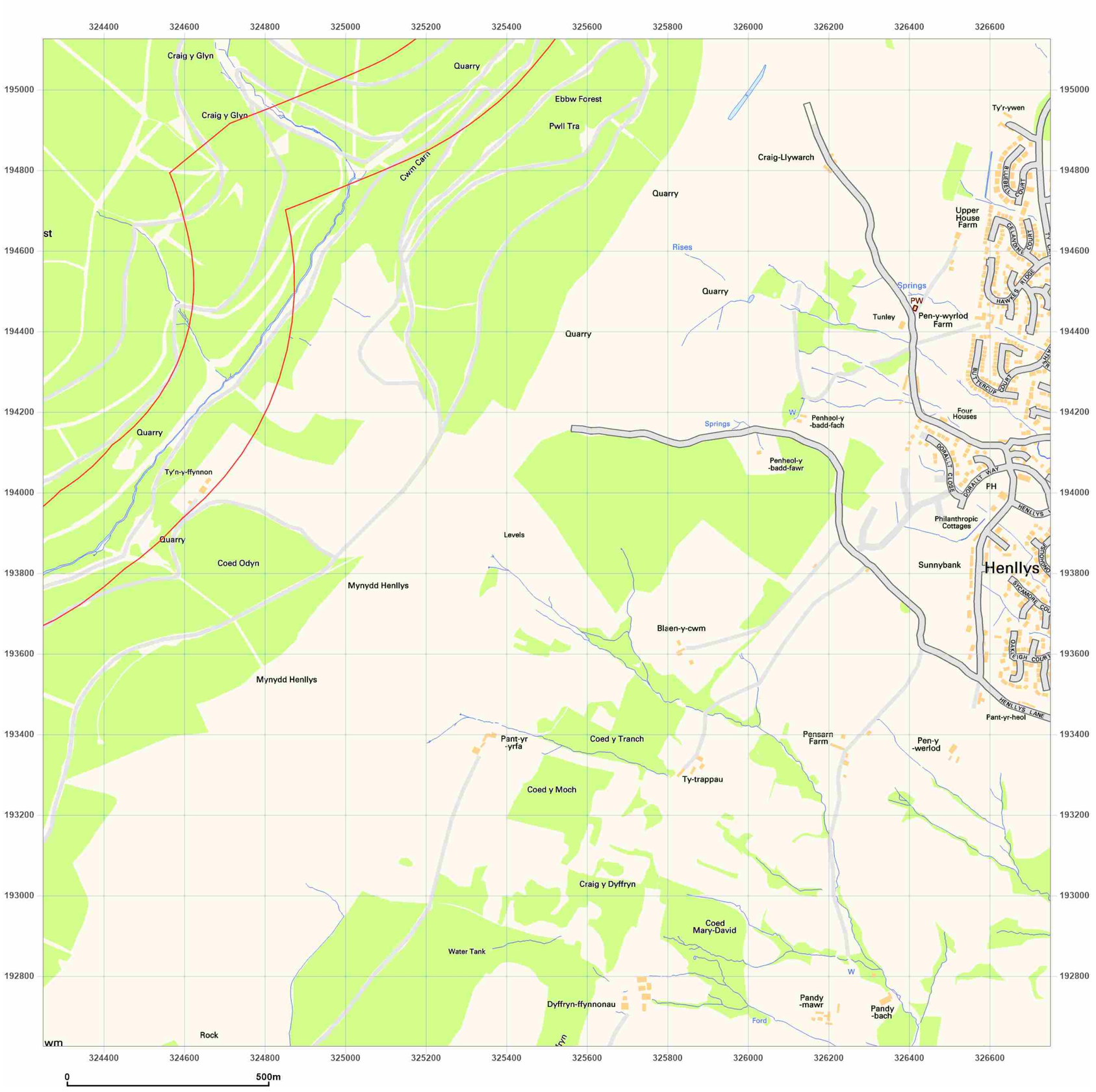
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2001

Groundsure INSIGHTS

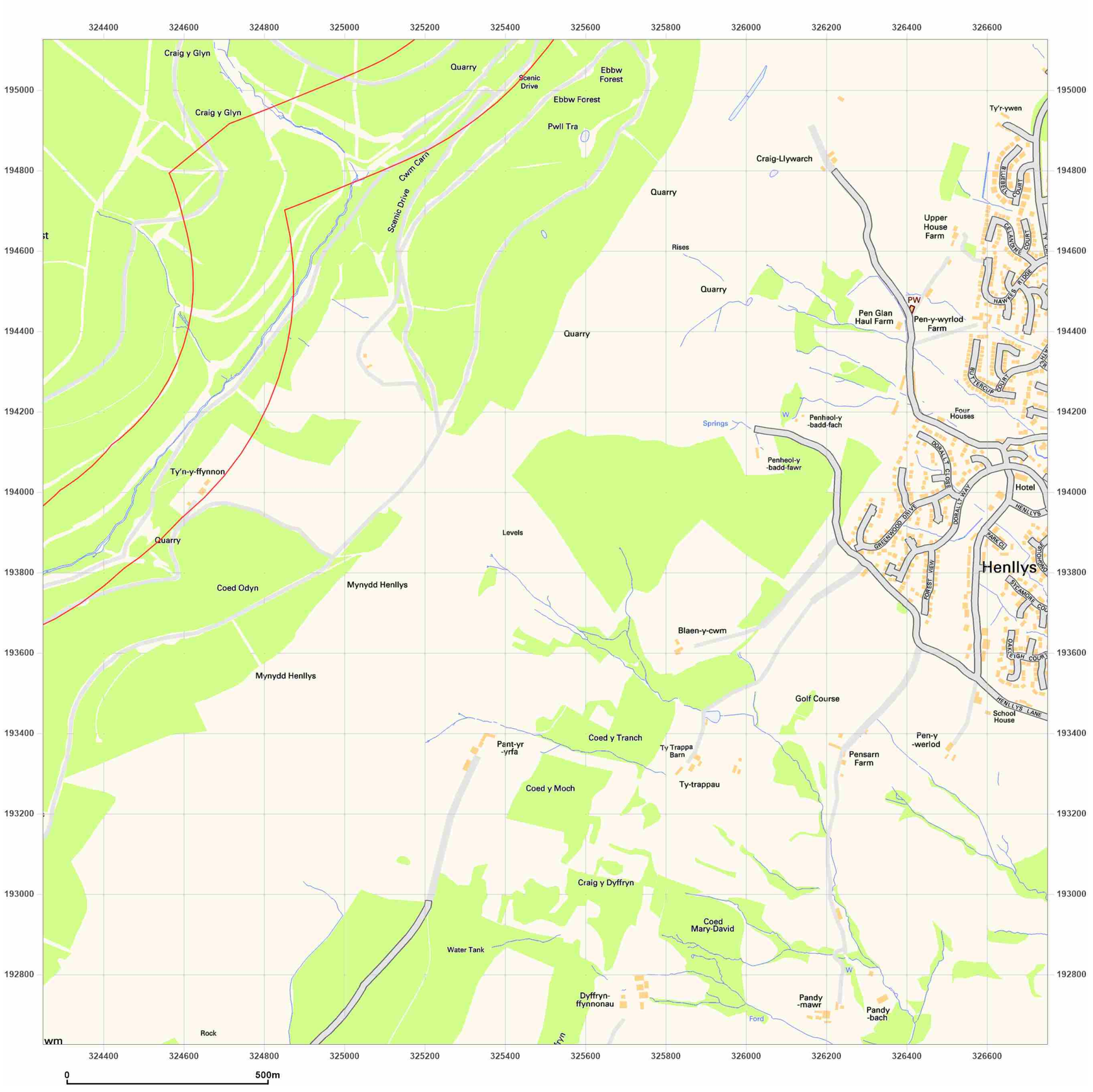
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2010

Groundsure INSIGHTS

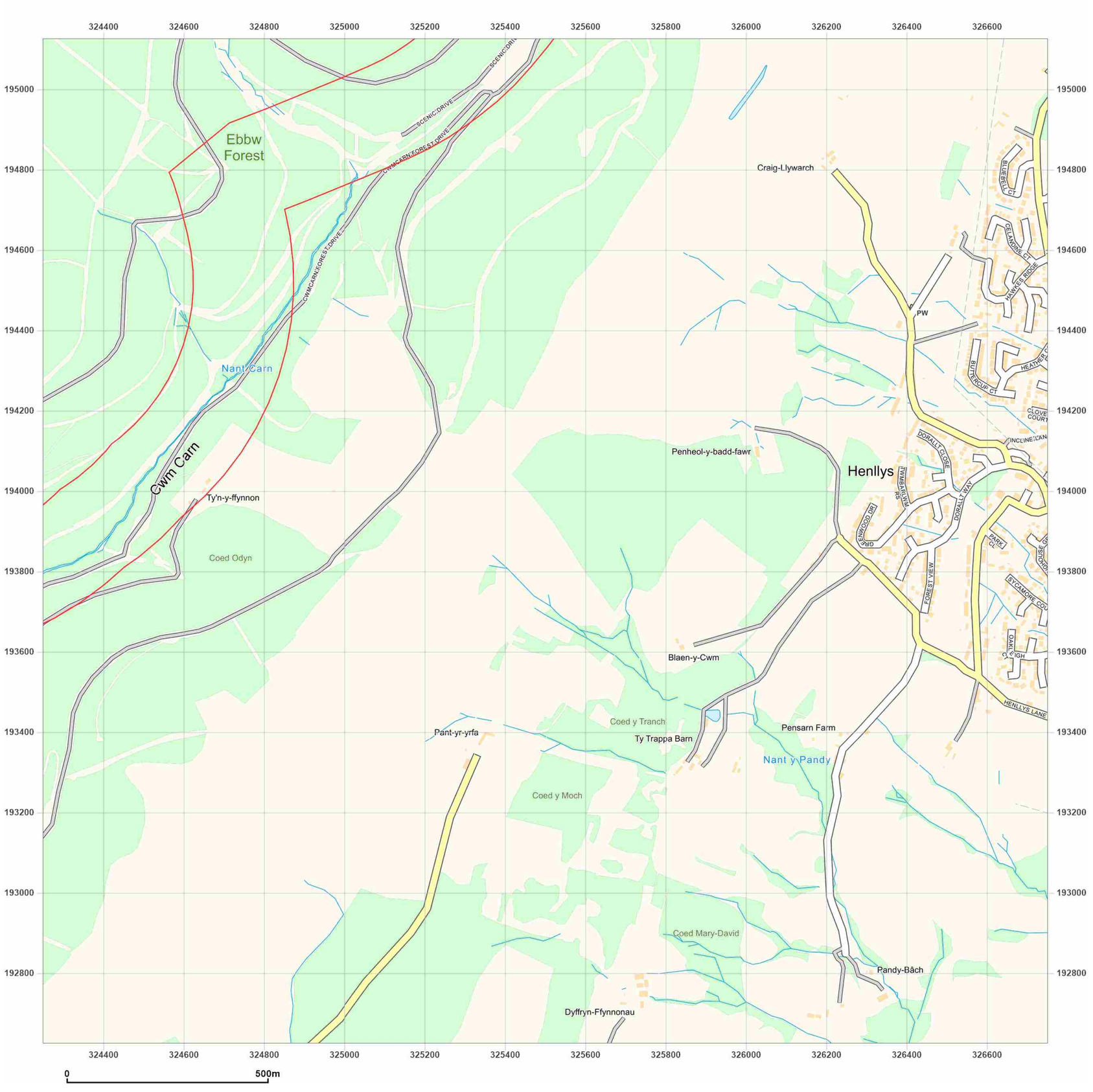
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_1
Grid Ref: 325500, 193876

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

N
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2025

Groundsure INSIGHTS

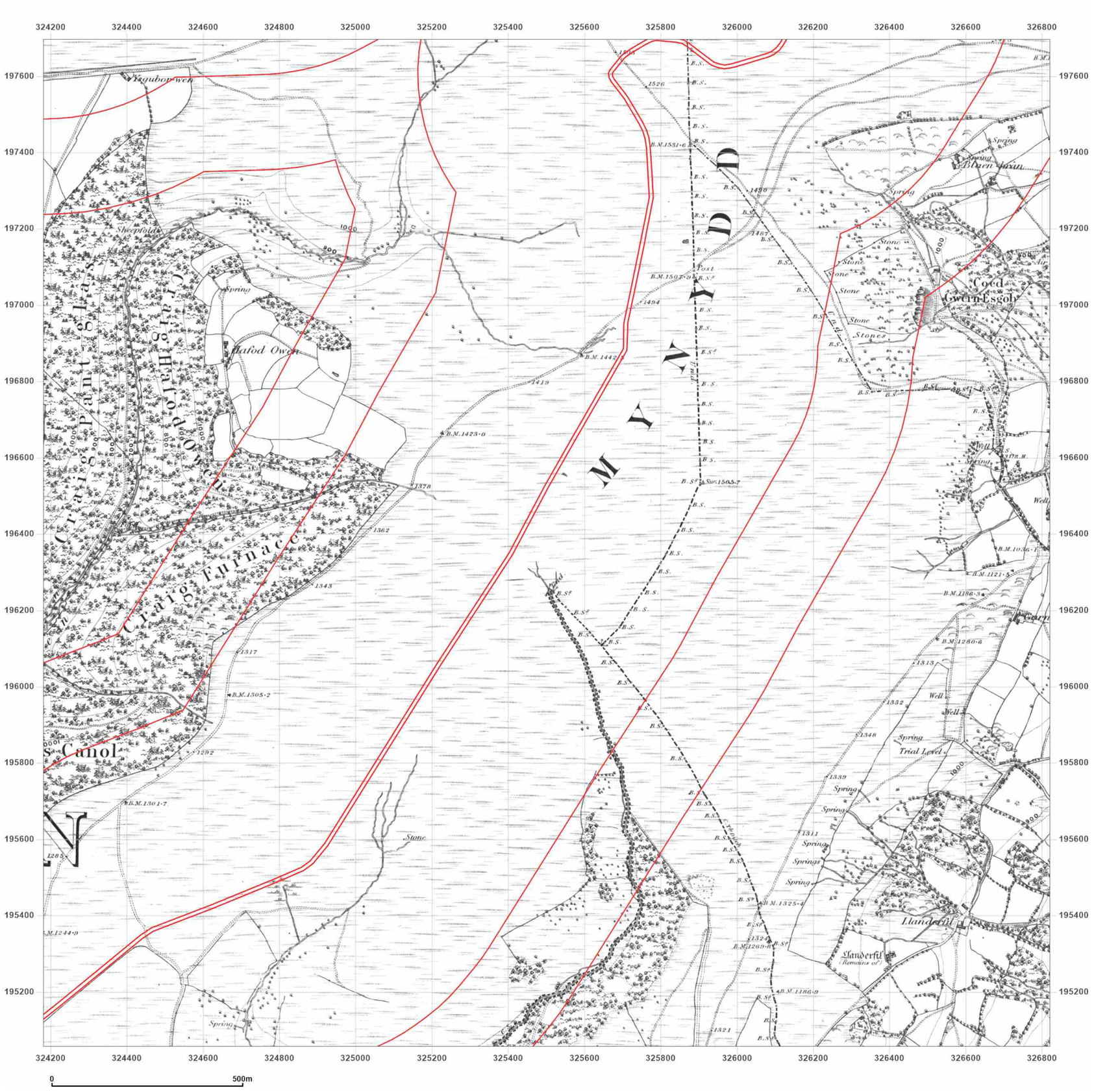
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: County Series

Map date: **1881**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised 1881
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

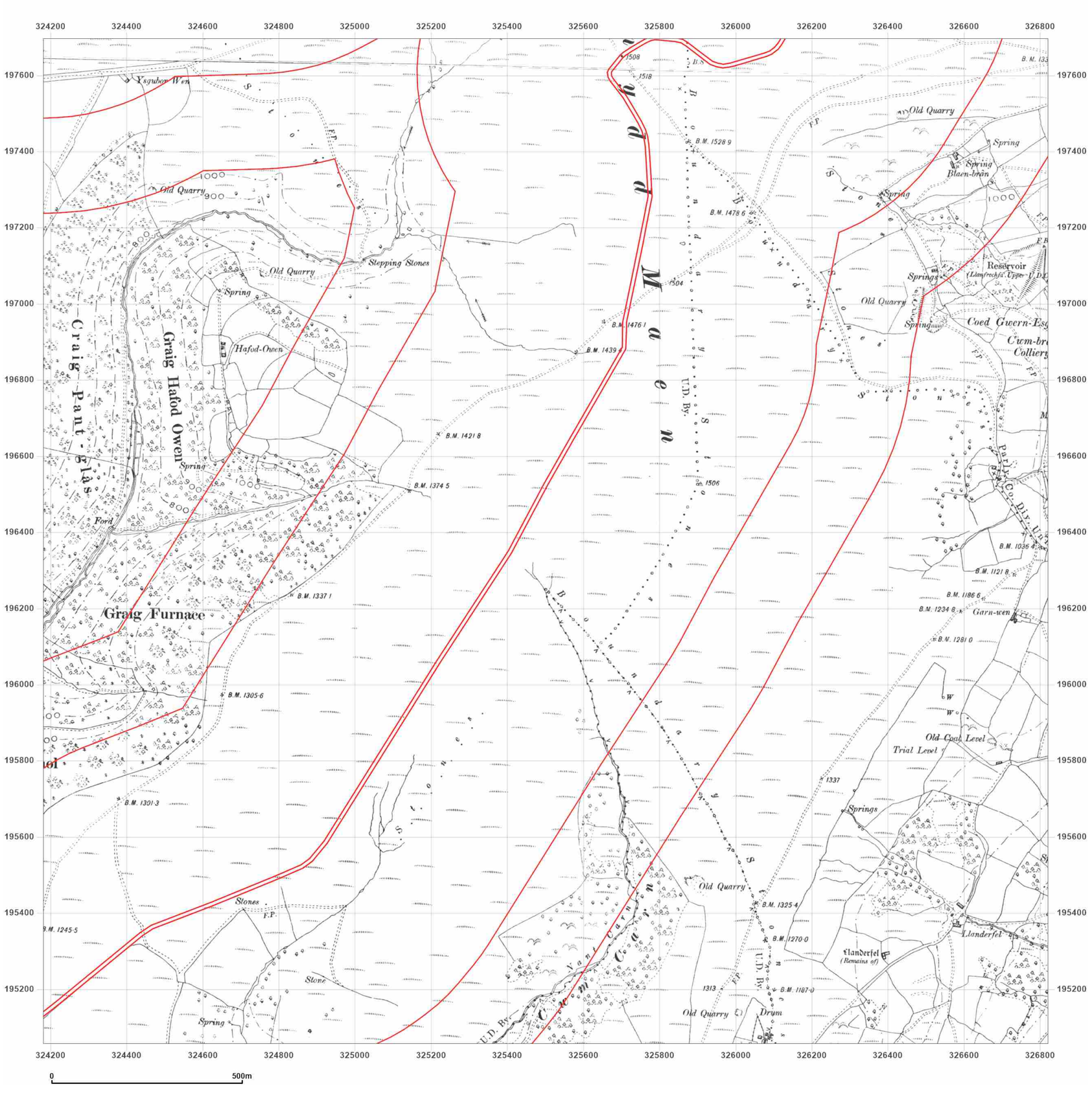
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

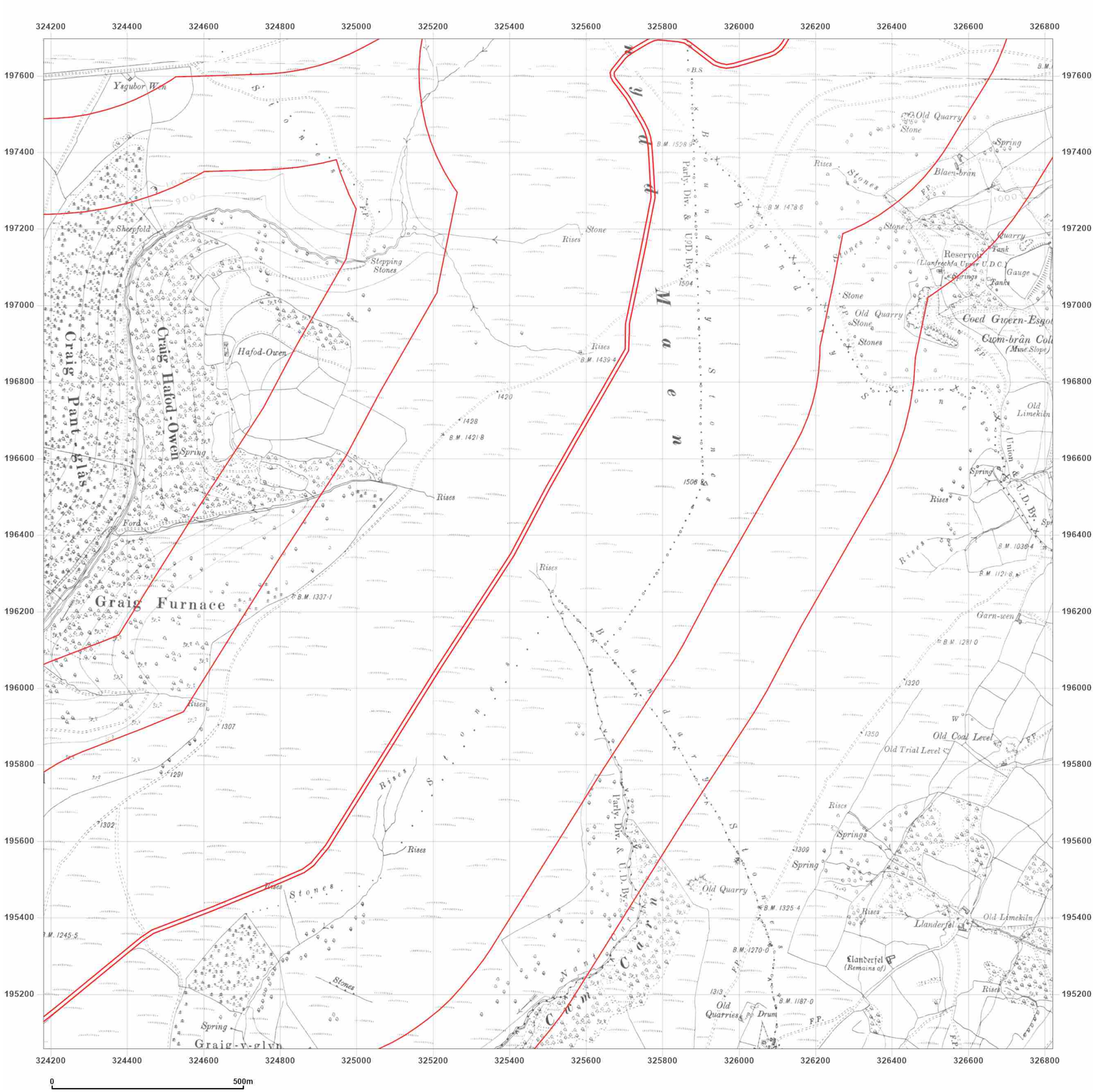
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: County Series

Map date: **1917-1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1917
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1922
Edition 1922
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

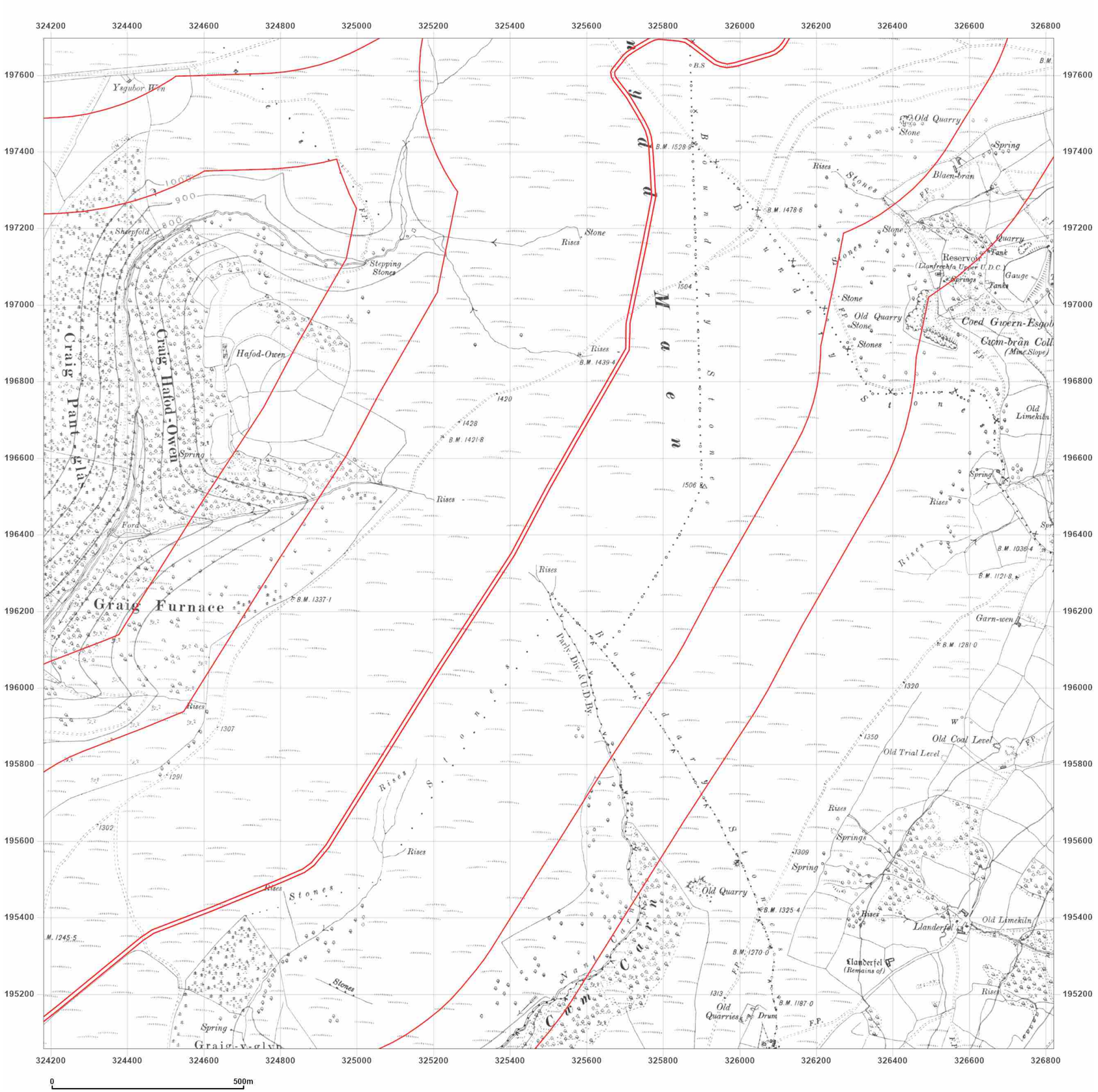
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: County Series

Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1881
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

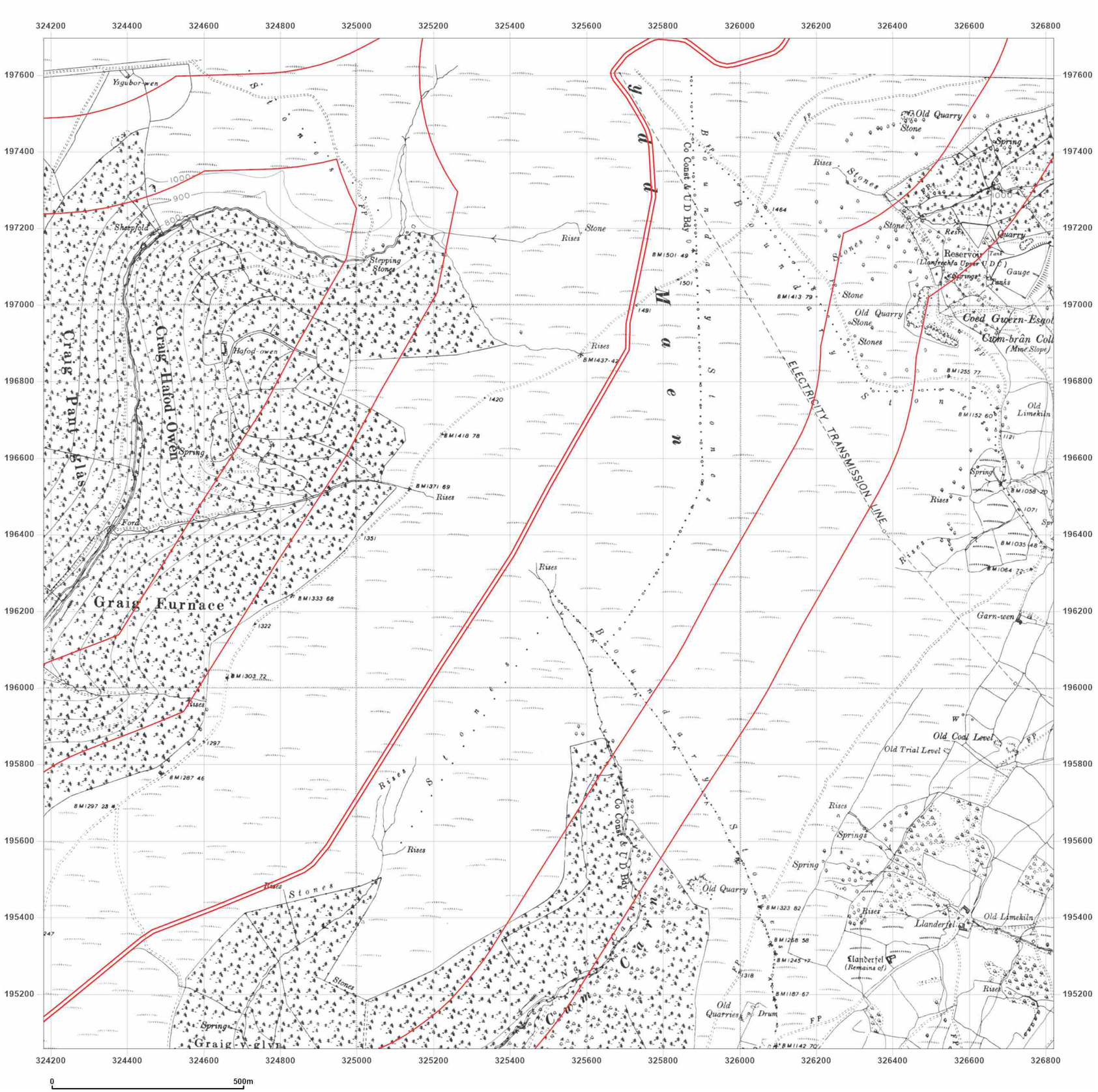
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: County Series

Map date: **1948**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

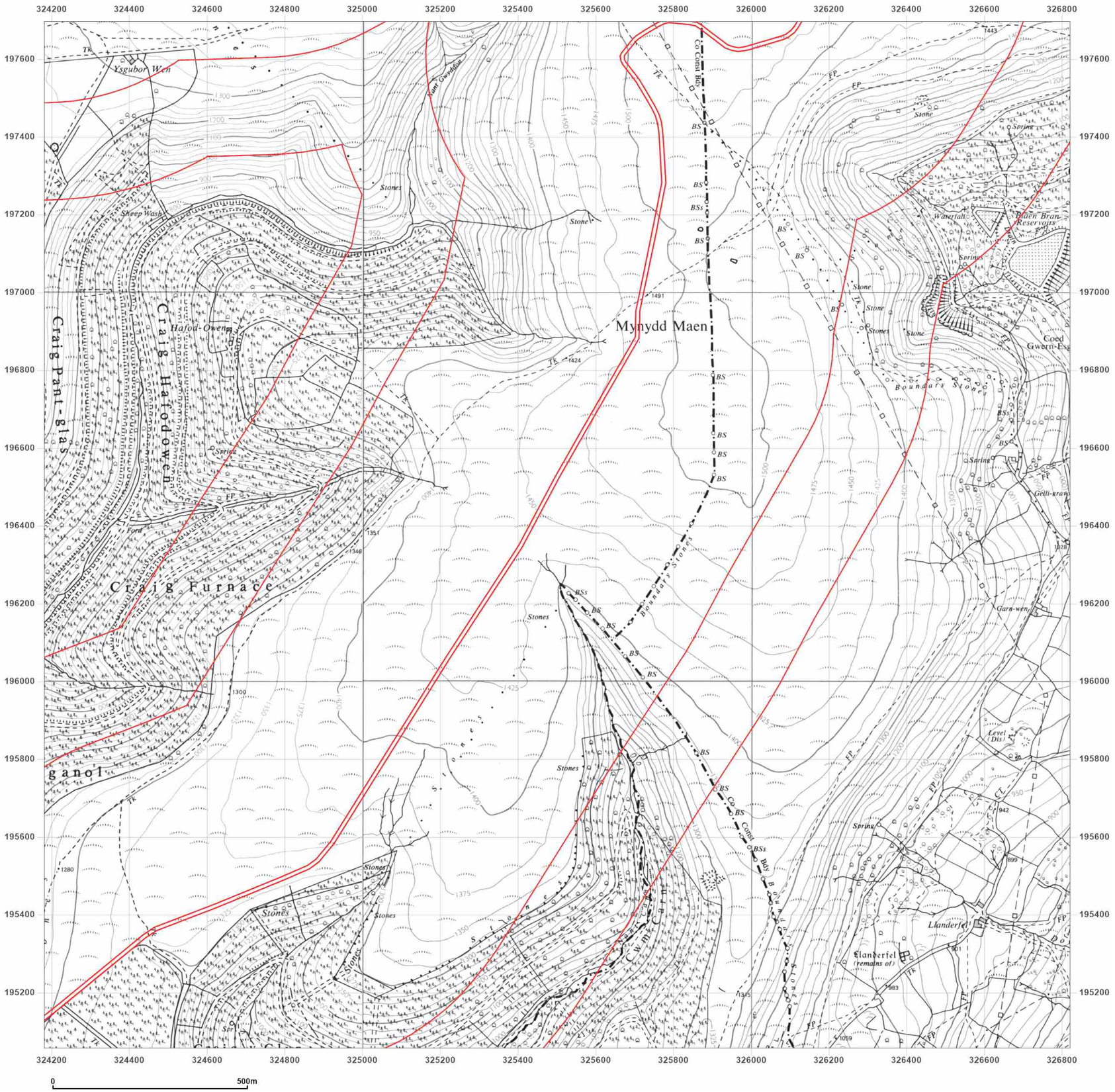
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: Provisional

Map date: **1965**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1949
Revised 1963
Edition N/A
Copyright 1965
Levelled N/A

Groundsure INSIGHTS

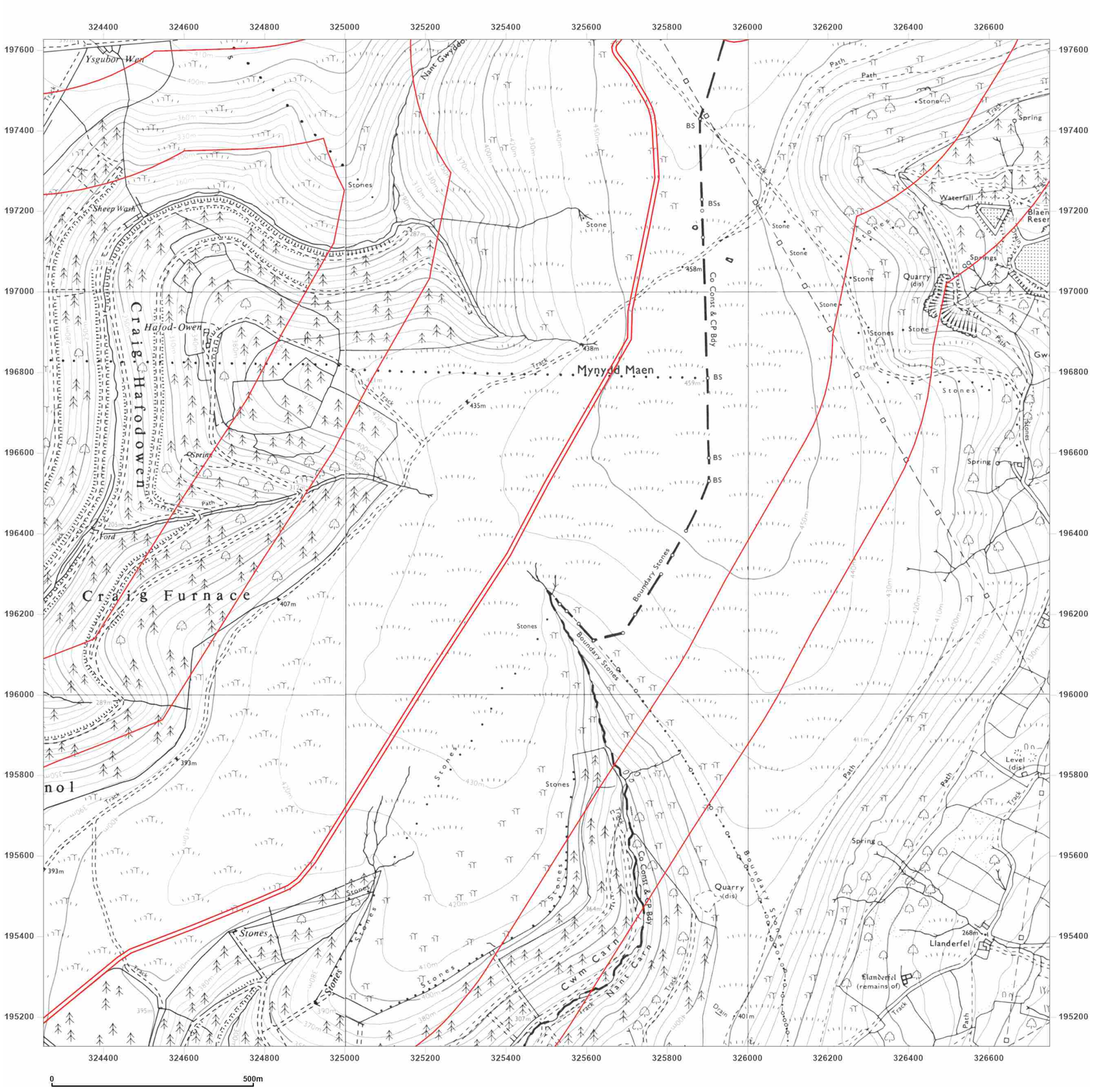
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: National Grid

Map date: **1981-1983**

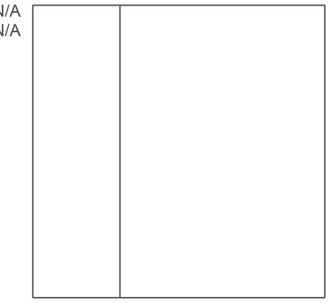
Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1976
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1981
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A



Groundsure INSIGHTS

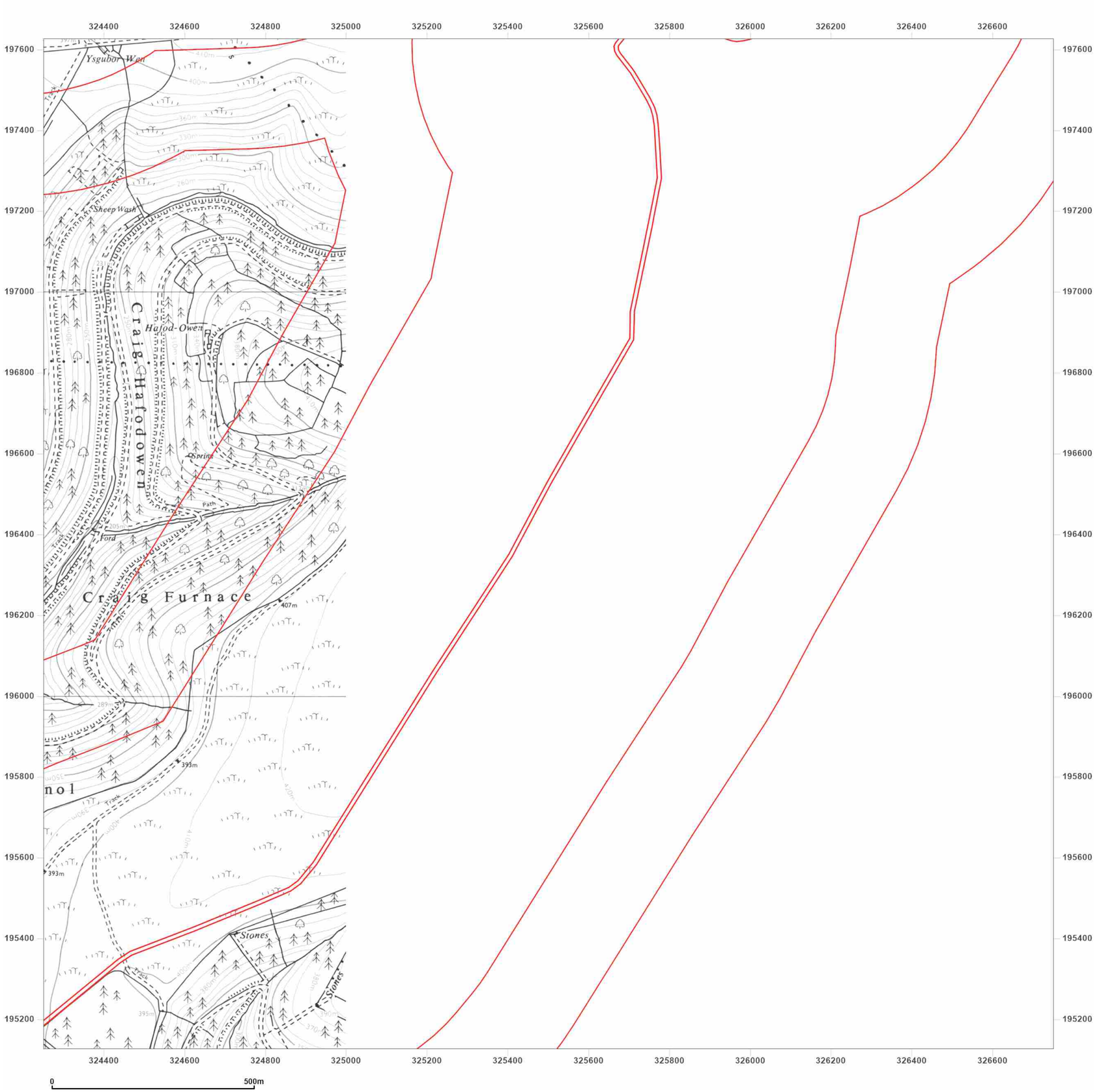
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: National Grid

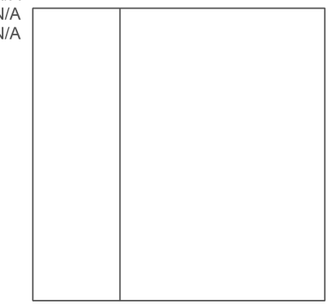
Map date: **1989**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

Surveyed 1976
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

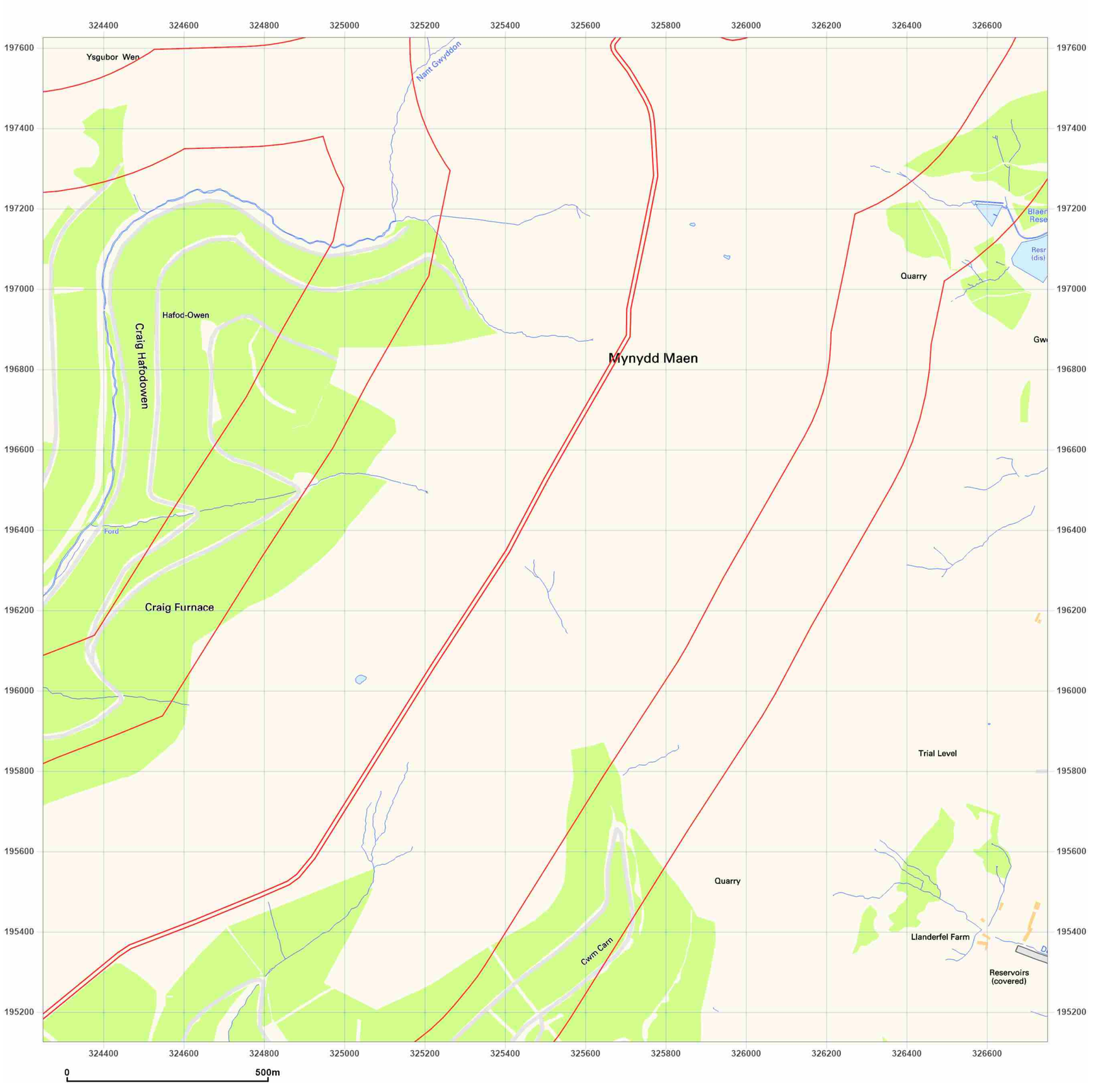


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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

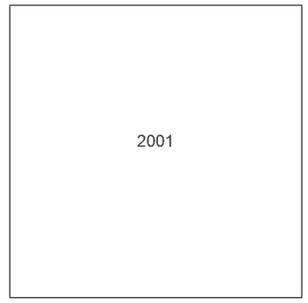
Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S



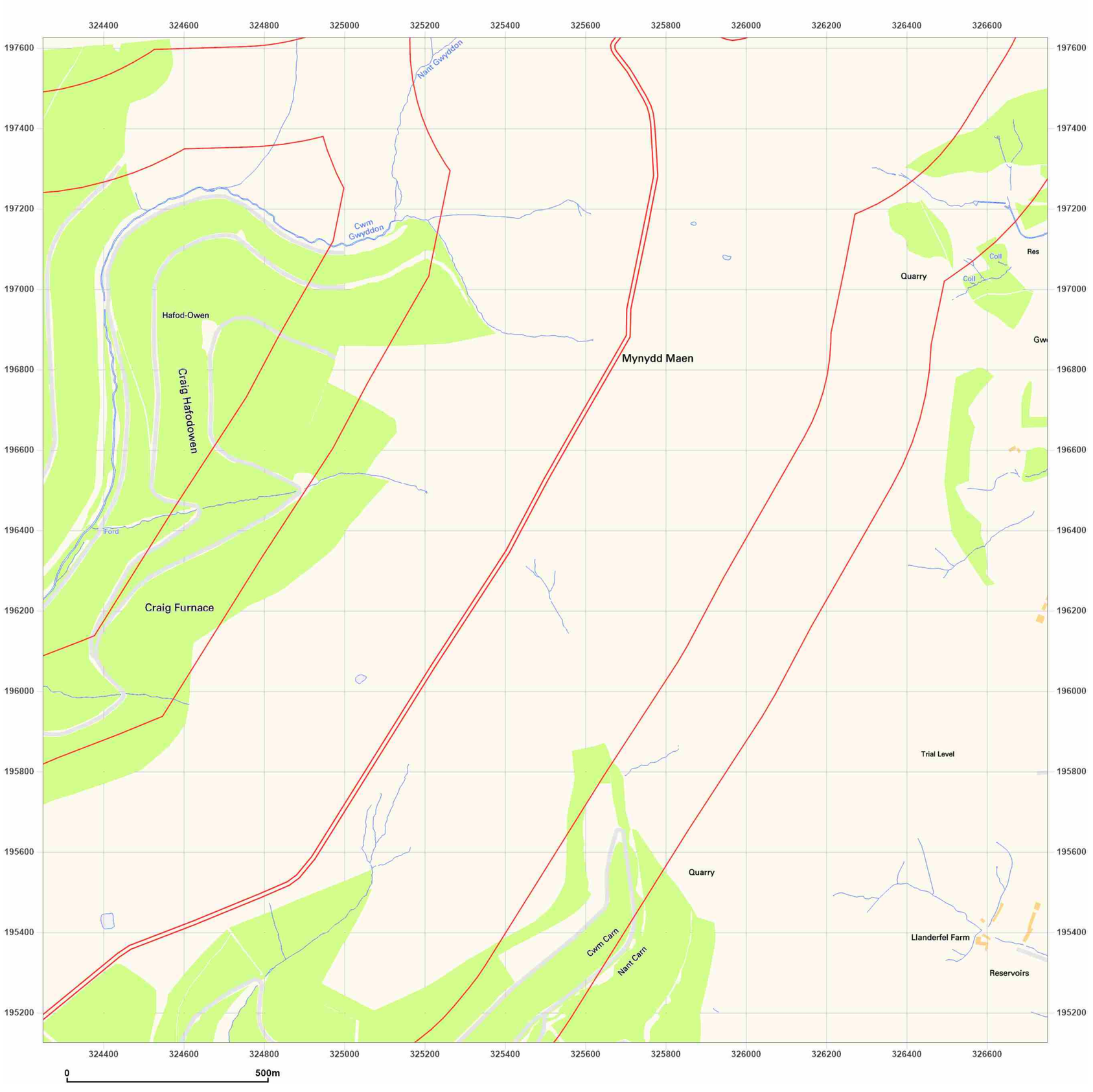
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

N
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2010

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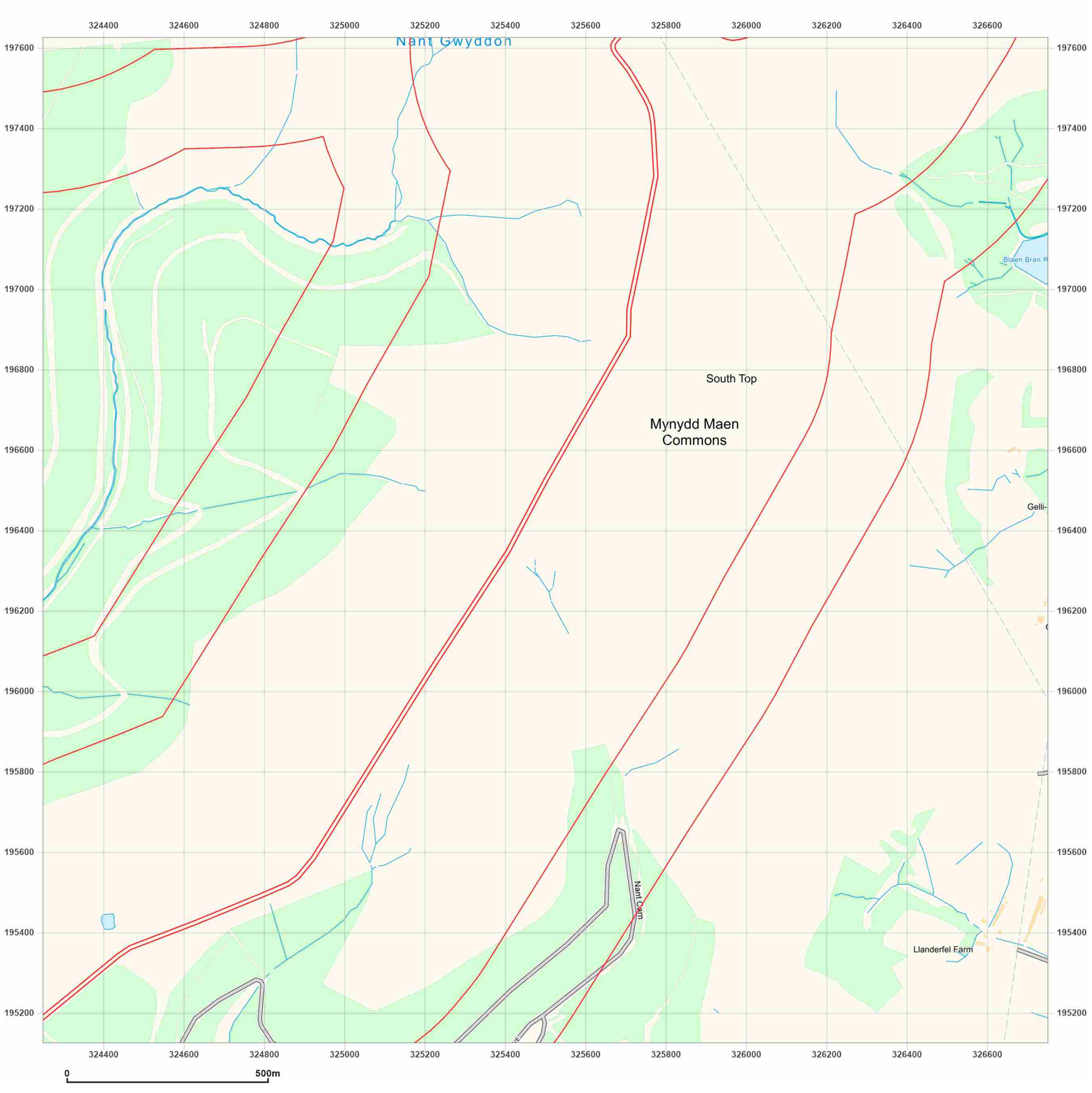
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_2
Grid Ref: 325500, 196376

Map Name: National Grid

Map date: **2025**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
S

2025

Groundsure INSIGHTS

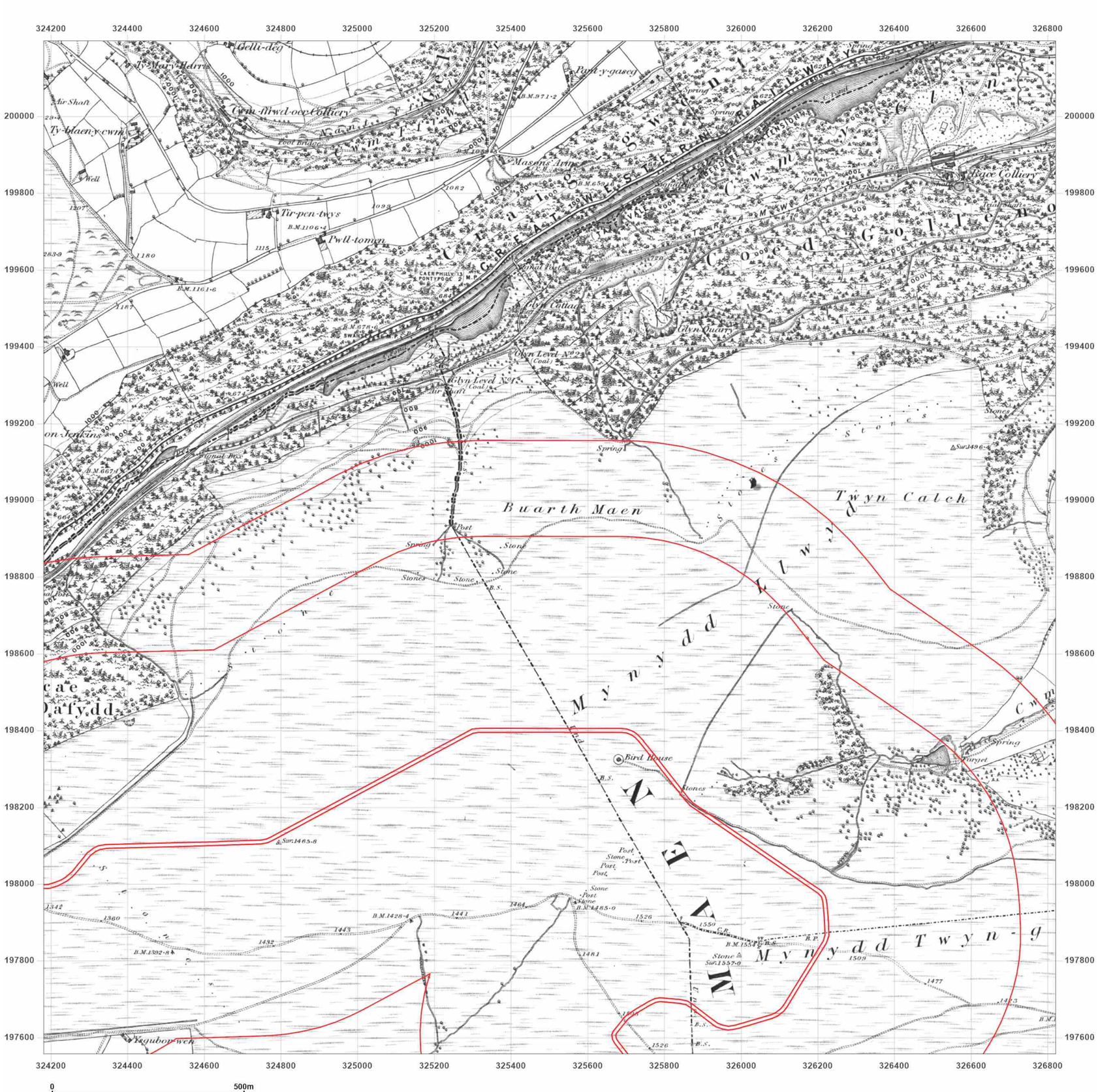
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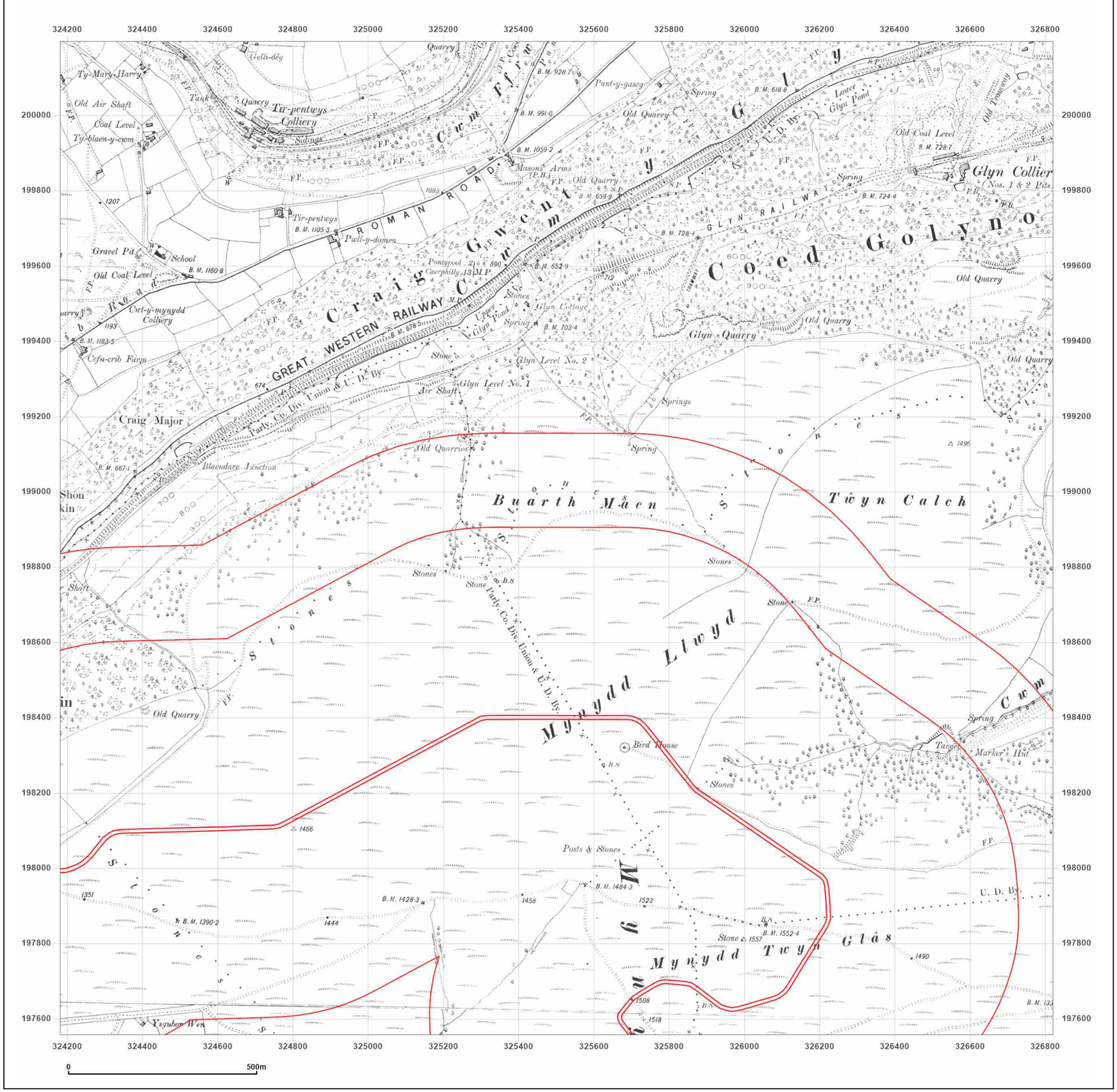
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Production date: 12 September 2025

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Gelli-deg
Pwll-y-gasey
Air Shaft
Ty-blaen-y-cwm
Well
Tir-pen-twys
Pwll-tomen
Masons Arms
Bace Colliery
Glyn Cottage
Glyn Quarry
Glyn Level №2
Glyn Level №1
Air Shaft
Spring
Buarth Maen
Twyn Calch
Post
Stone
Stones
Bird House
Cwm Rhyd-y-grafen
Cwm Glyn Colliery
Cwm Glyn Colliery
Pool Bridge
Caerphilly, Pontypool & N. S.
Caerphilly, Pontypool & N. S.
Rhyd-y-grafen
Cwm Glyn Valley
Cwm Glyn Valley
Cwm Glyn Valley



Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: County Series

Map date: **1899**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

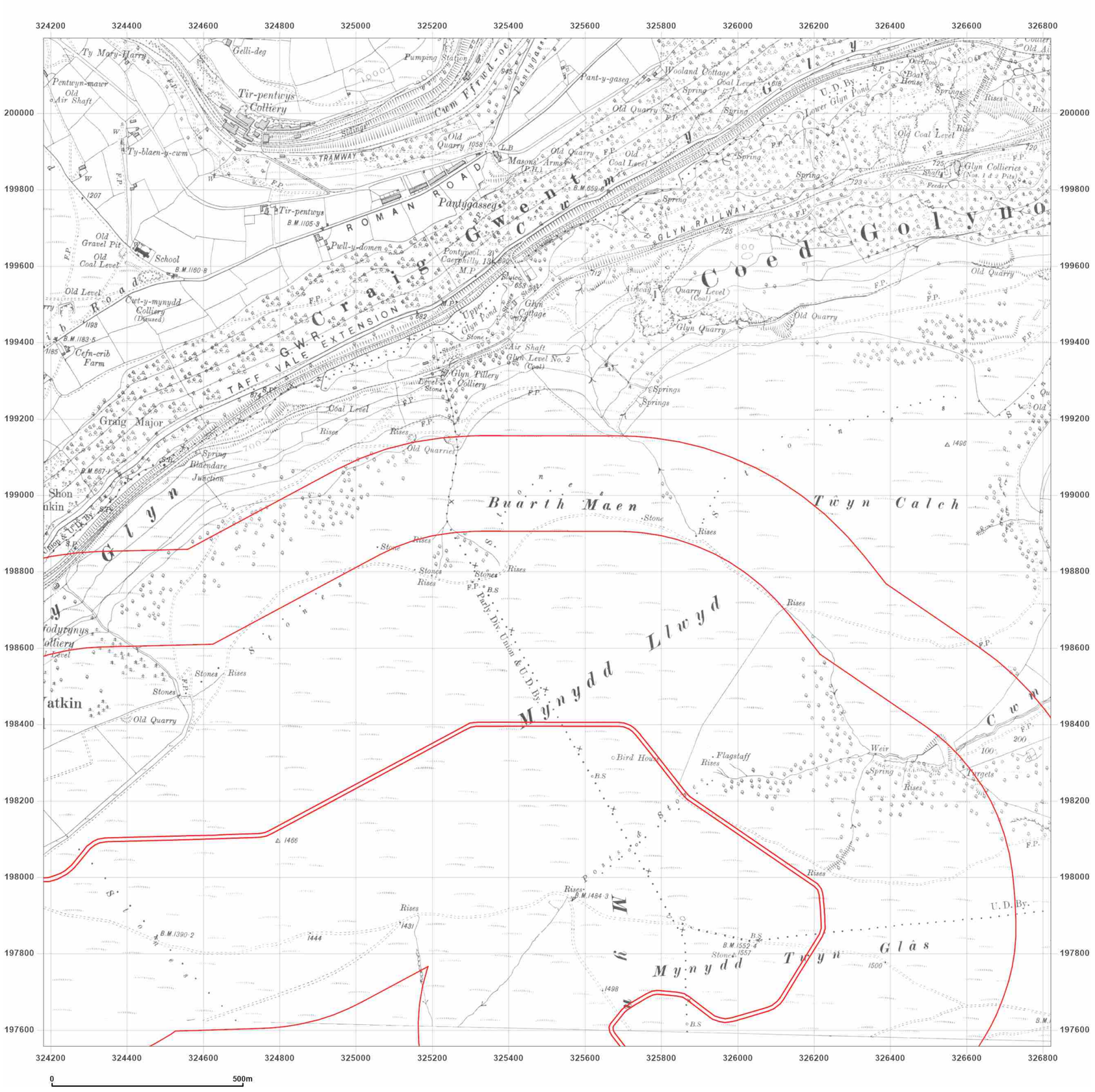
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: County Series

Map date: **1917**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1917
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

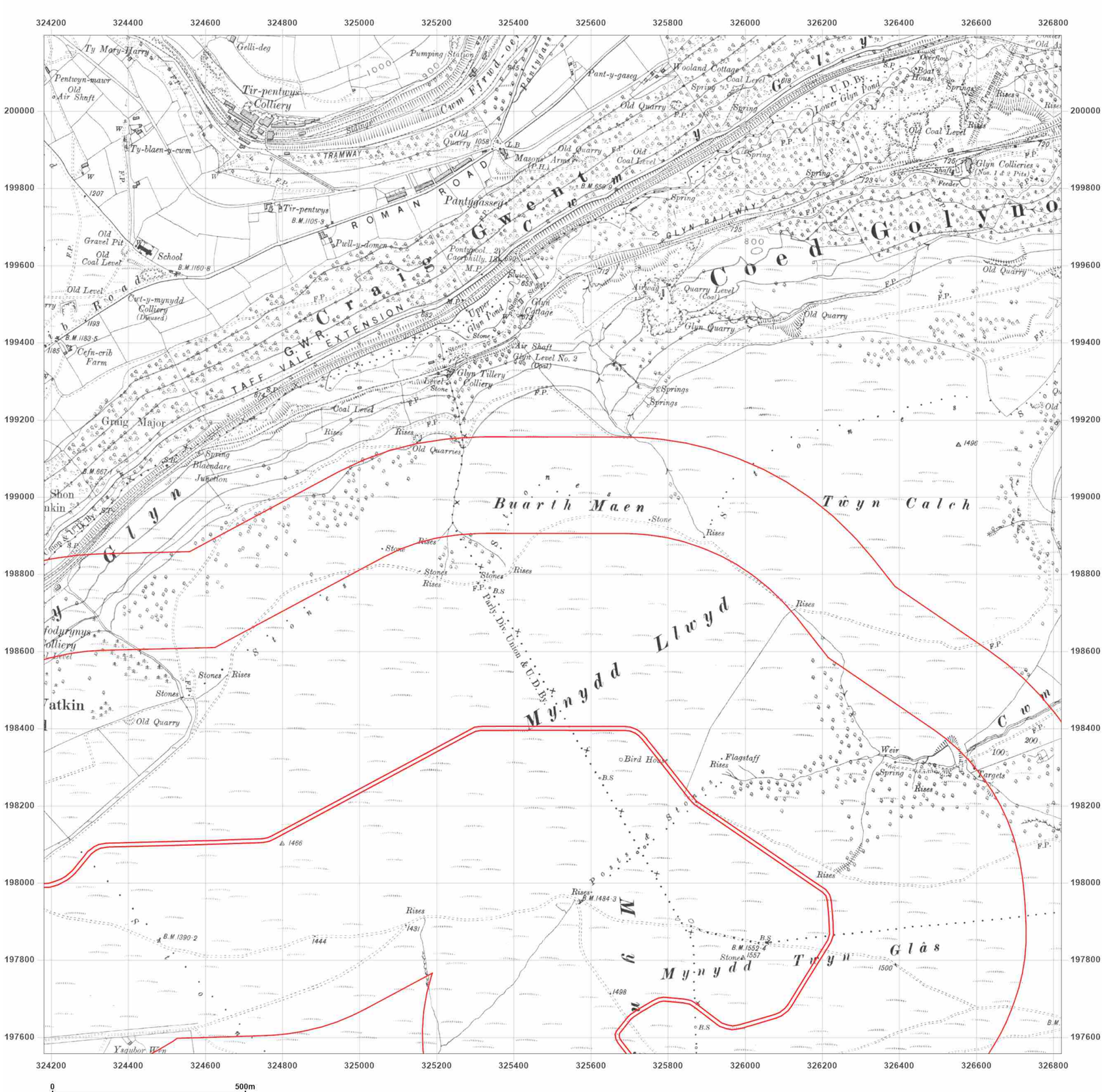
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: County Series

Map date: **1922**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1922
~~Edition 1922~~
Copyright N/A
Levelled N/A

Surveyed 1881
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

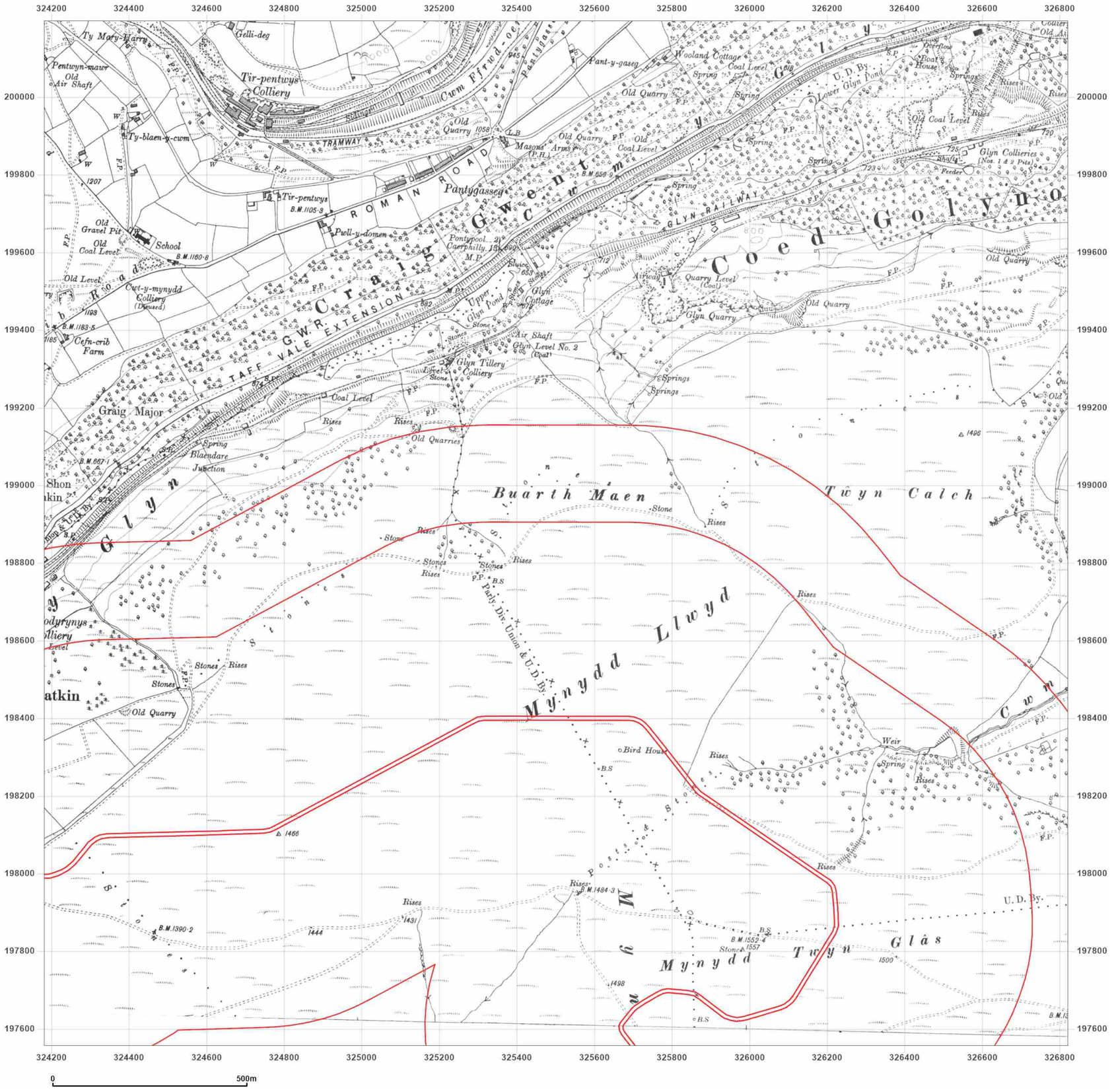
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

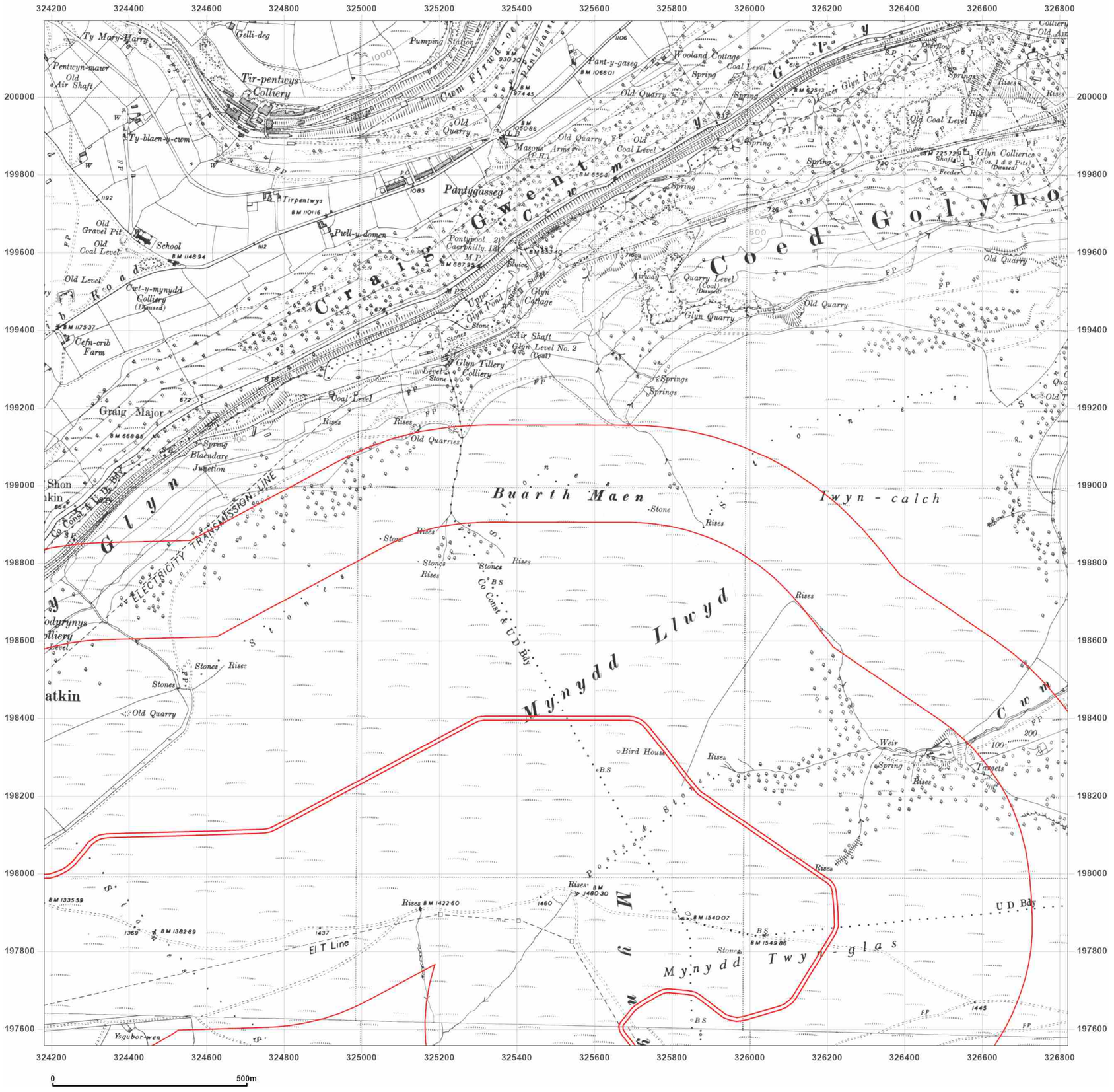
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: County Series

Map date: **1948-1949**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1878
Revised 1949
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1878
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

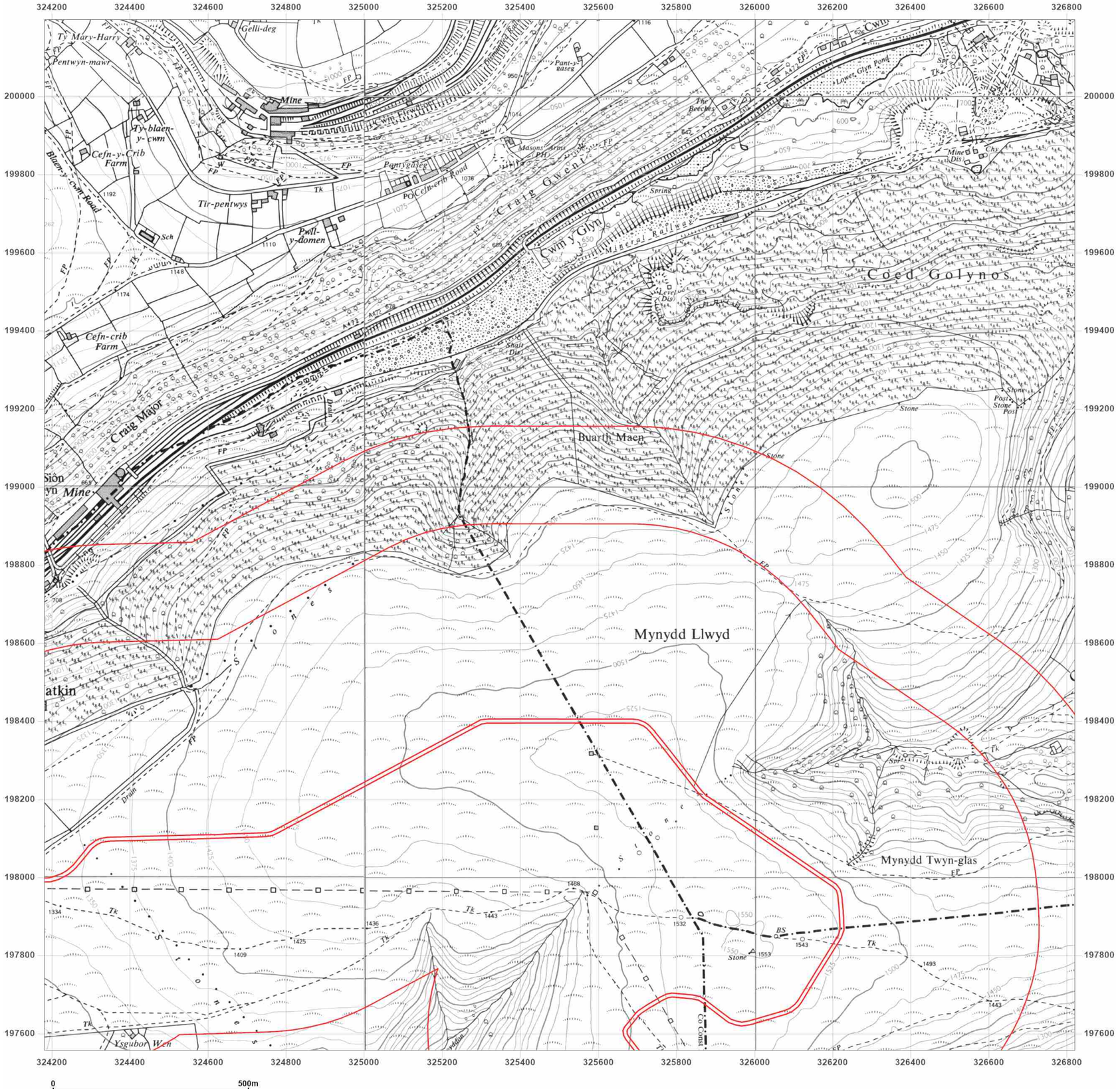
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: Provisional

Map date: **1965**

Scale: 1:10,560

Printed at: 1:10,560

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1963
Edition 1965
Copyright 1965
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
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Levelled N/A

Surveyed 1949
Revised 1963
Edition N/A
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Levelled N/A

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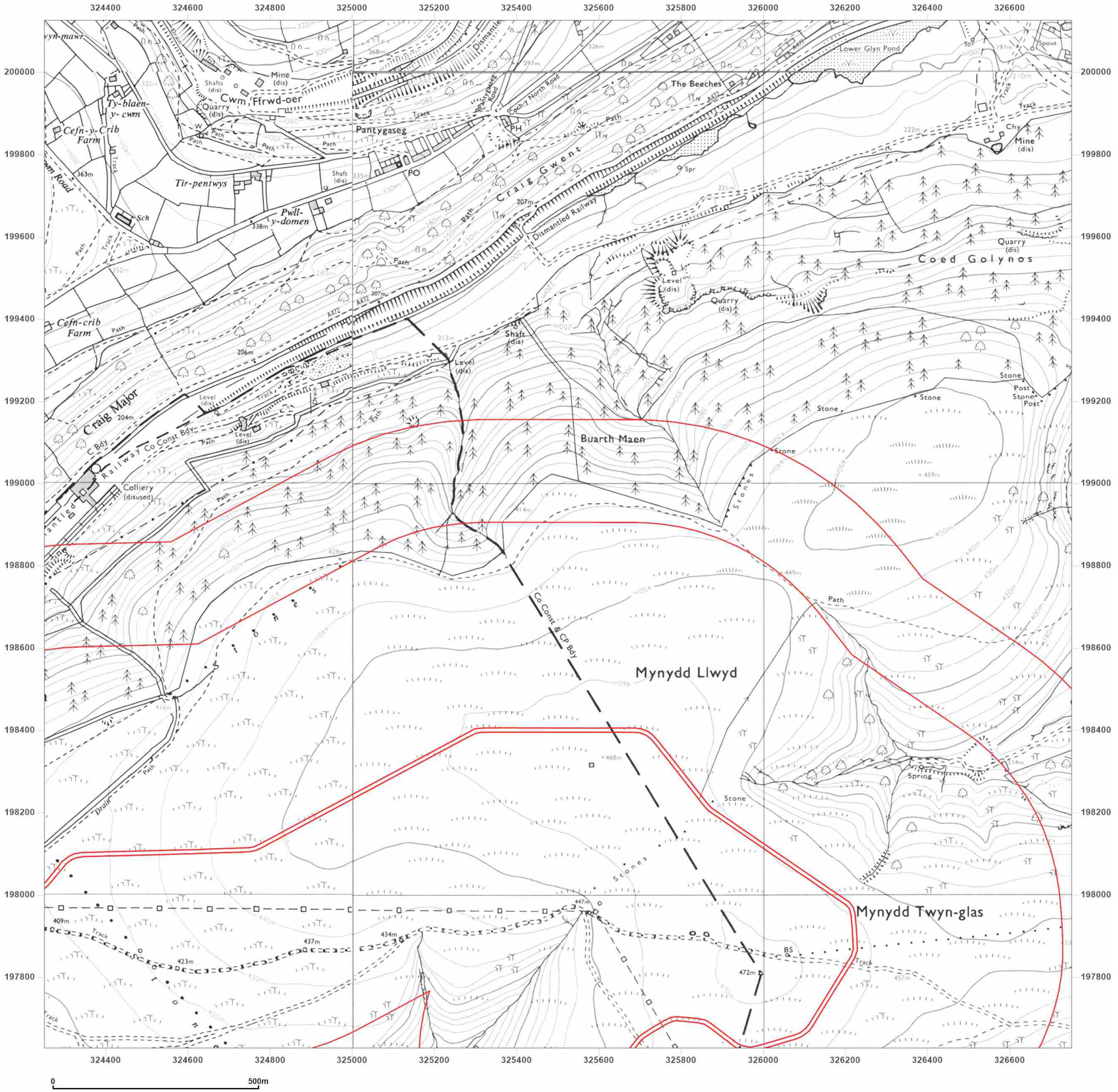
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: National Grid

Map date: **1978-1983**

Scale: 1:10,000

Printed at: 1:10,000

N
W E
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Surveyed 1975
Revised 1978
Edition N/A
Copyright 1978
Levelled 1975

Surveyed 1976
Revised 1979
Edition N/A
Copyright 1979
Levelled 1975

Surveyed 1976
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1981
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A

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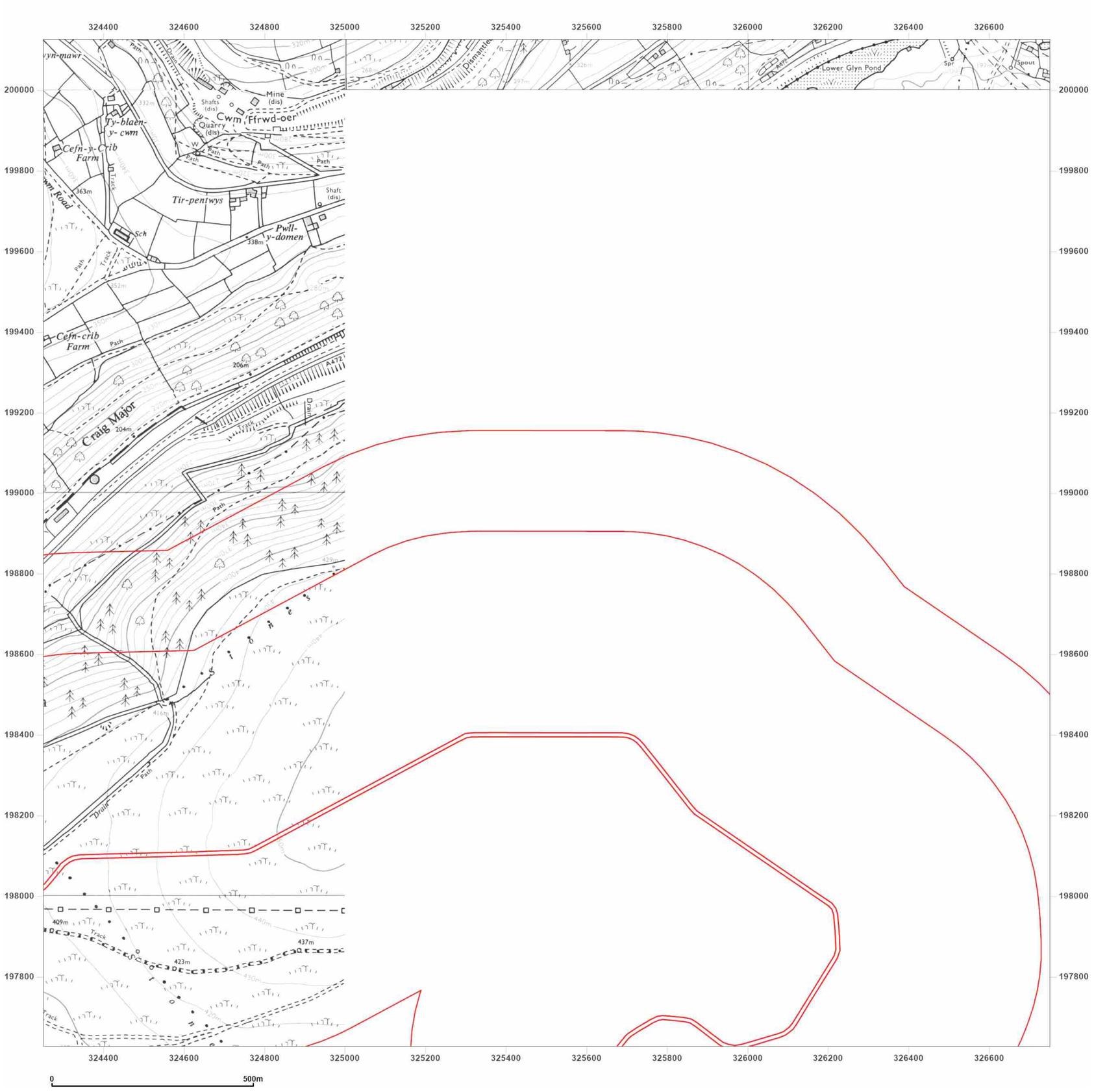
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: National Grid

Map date: **1987-1989**

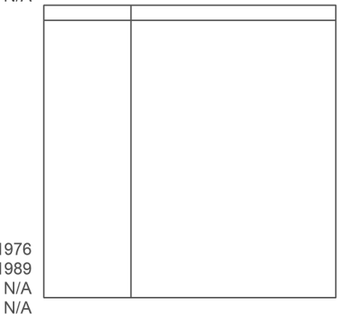
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Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1976
Revised 1989
Edition N/A
Copyright N/A
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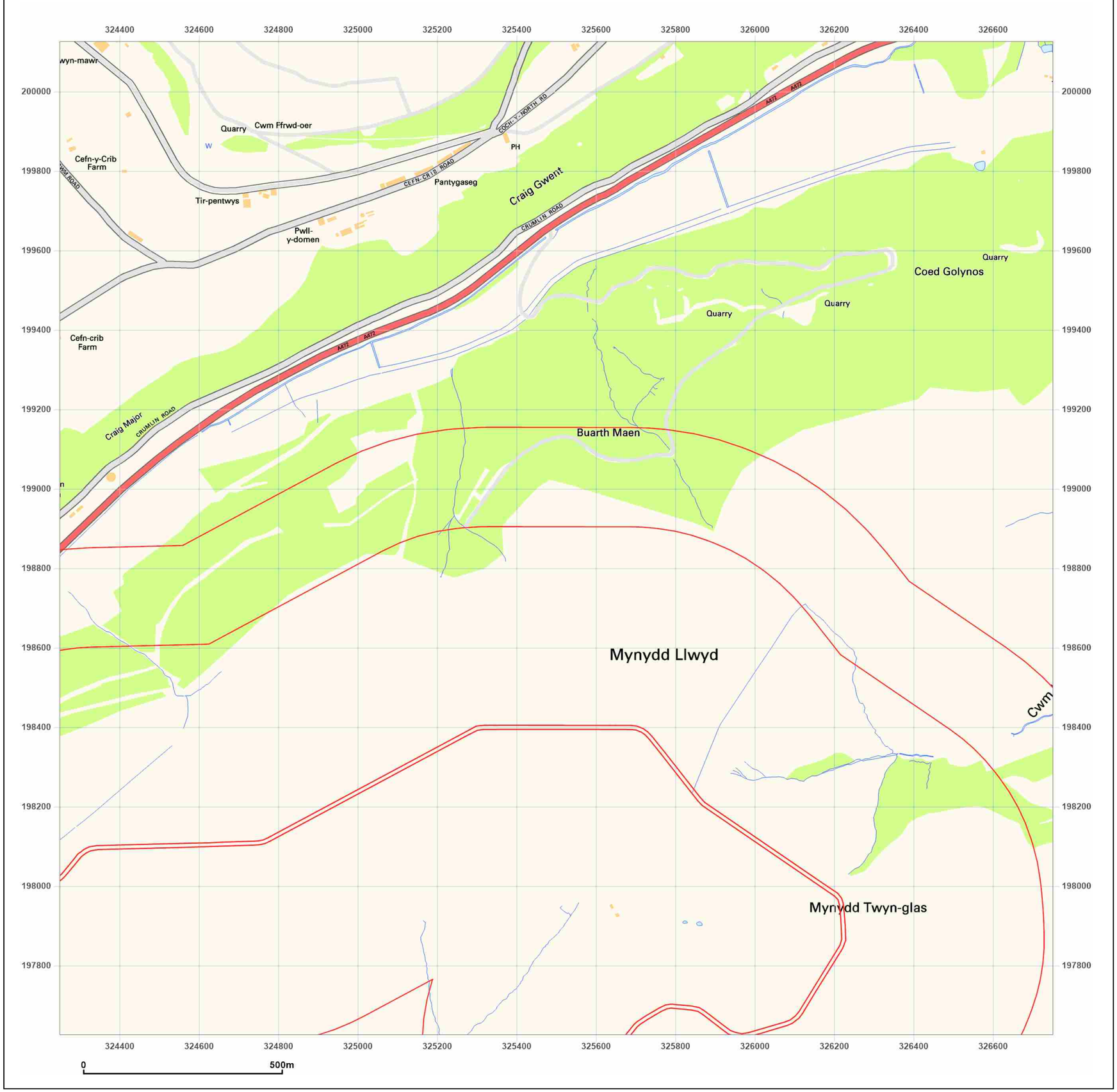
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

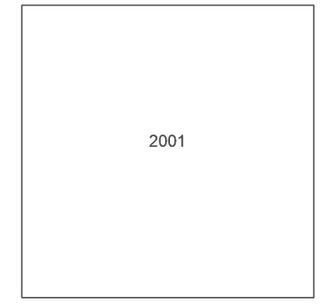
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Map date: **2001**

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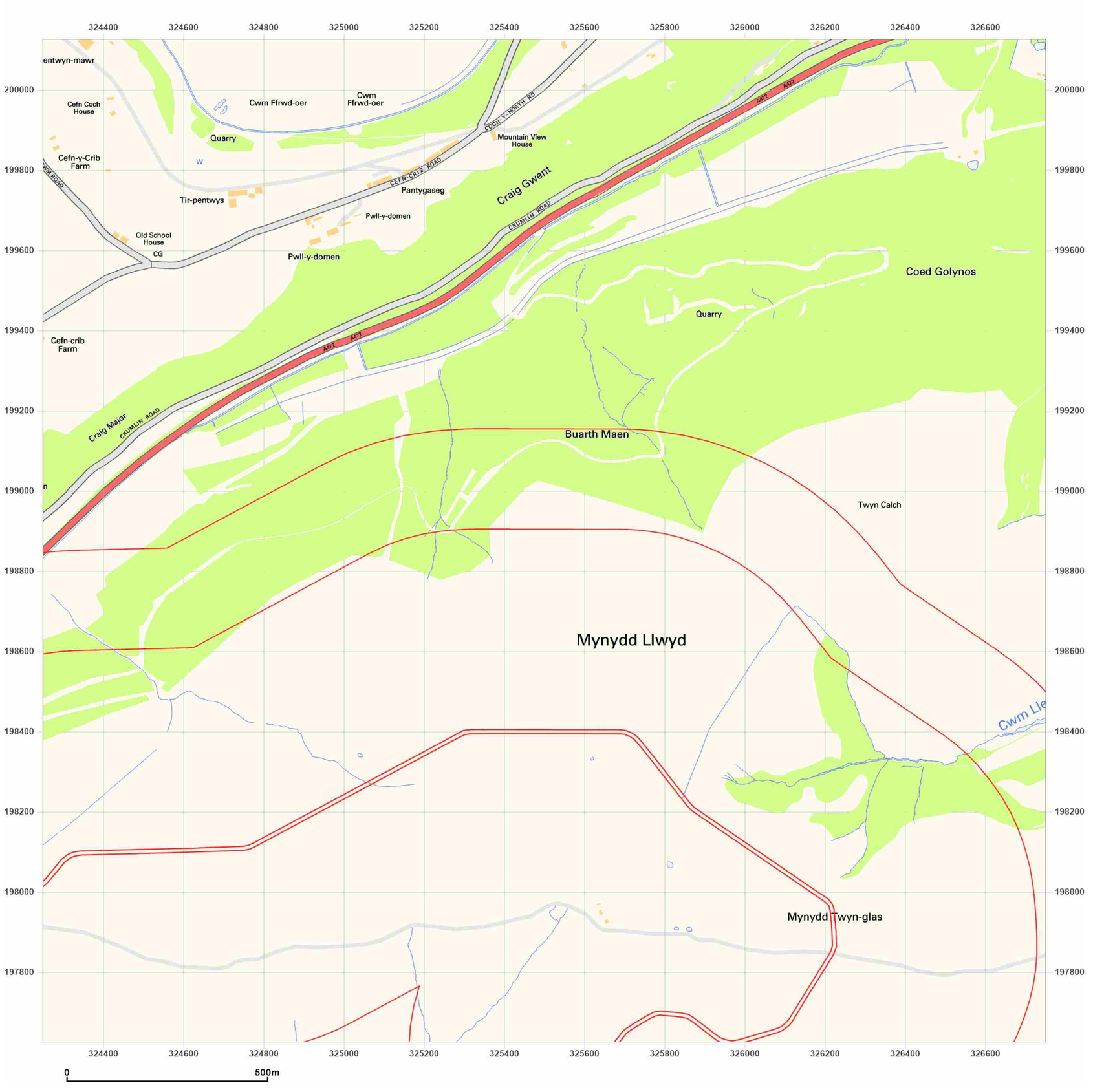
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

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Groundsure INSIGHTS

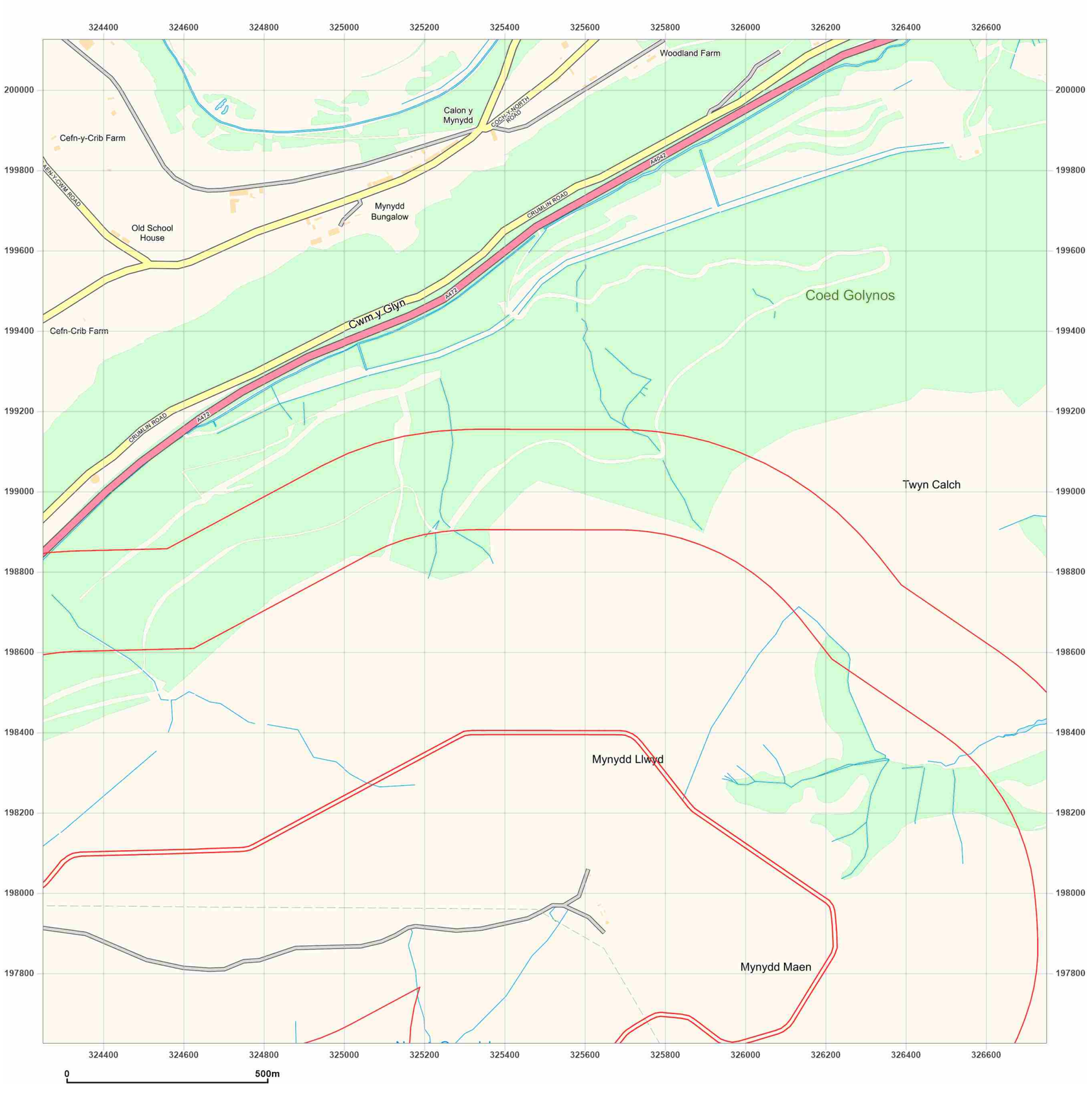
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_SS_2_3
Grid Ref: 325500, 198876

Map Name: National Grid
Map date: **2025**
Scale: 1:10,000
Printed at: 1:10,000

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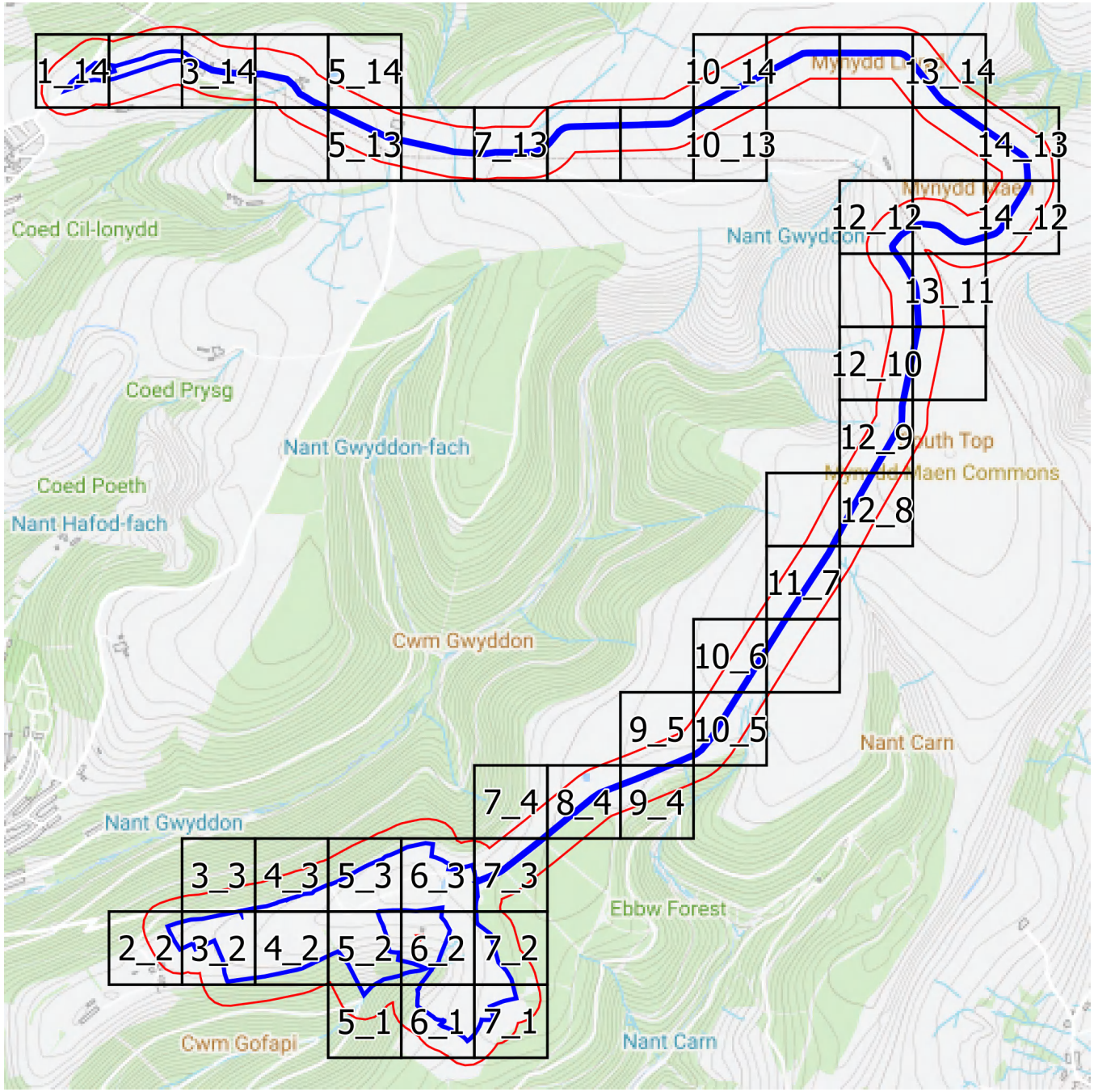
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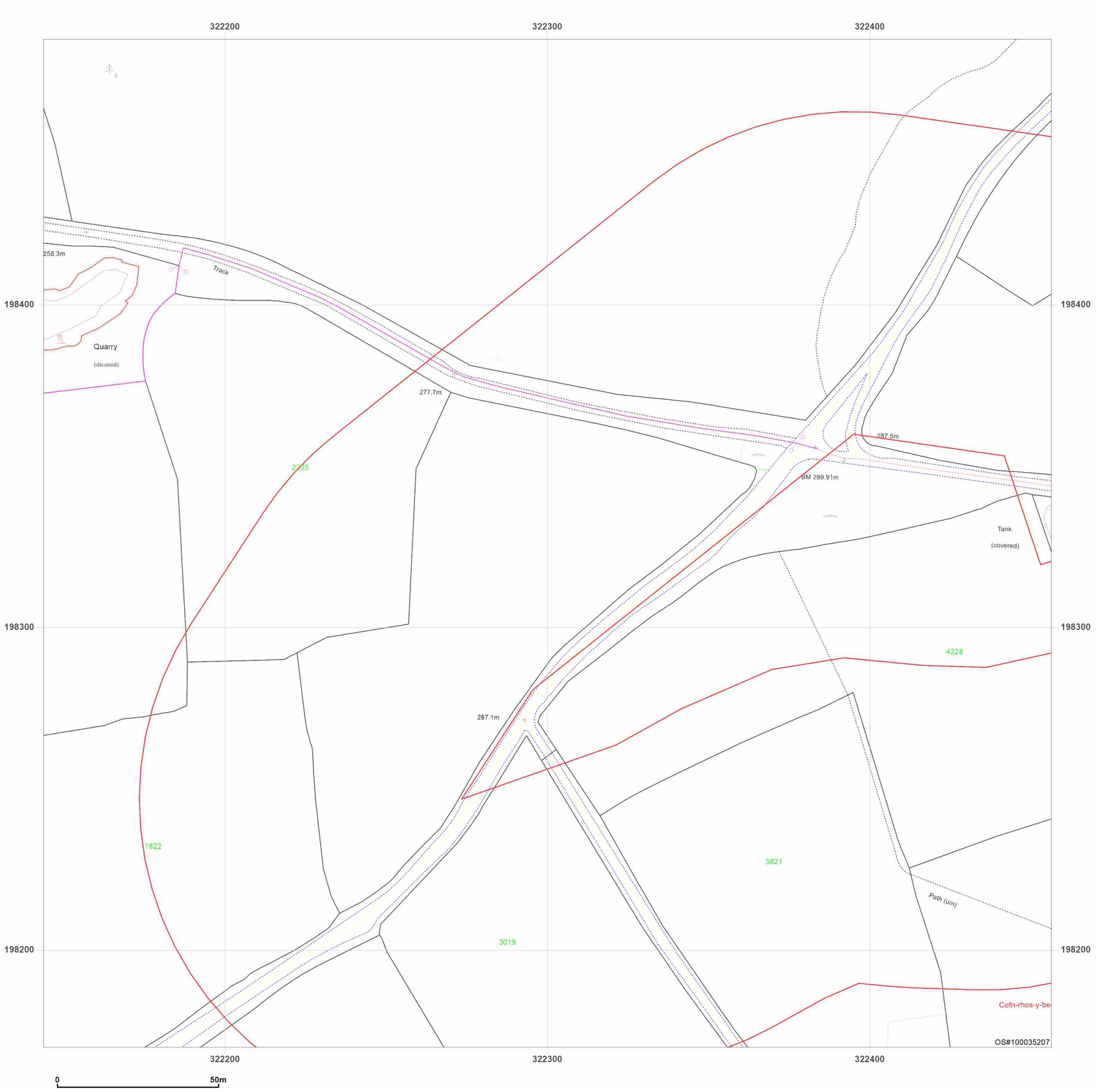
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Landline Scale Grid Index

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_1_14
Grid Ref: 322300, 198326

Map Name: LandLine

Map date: **2003**

Scale: 1:1,250

Printed at: 1:1,250

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2003

Groundsure INSIGHTS

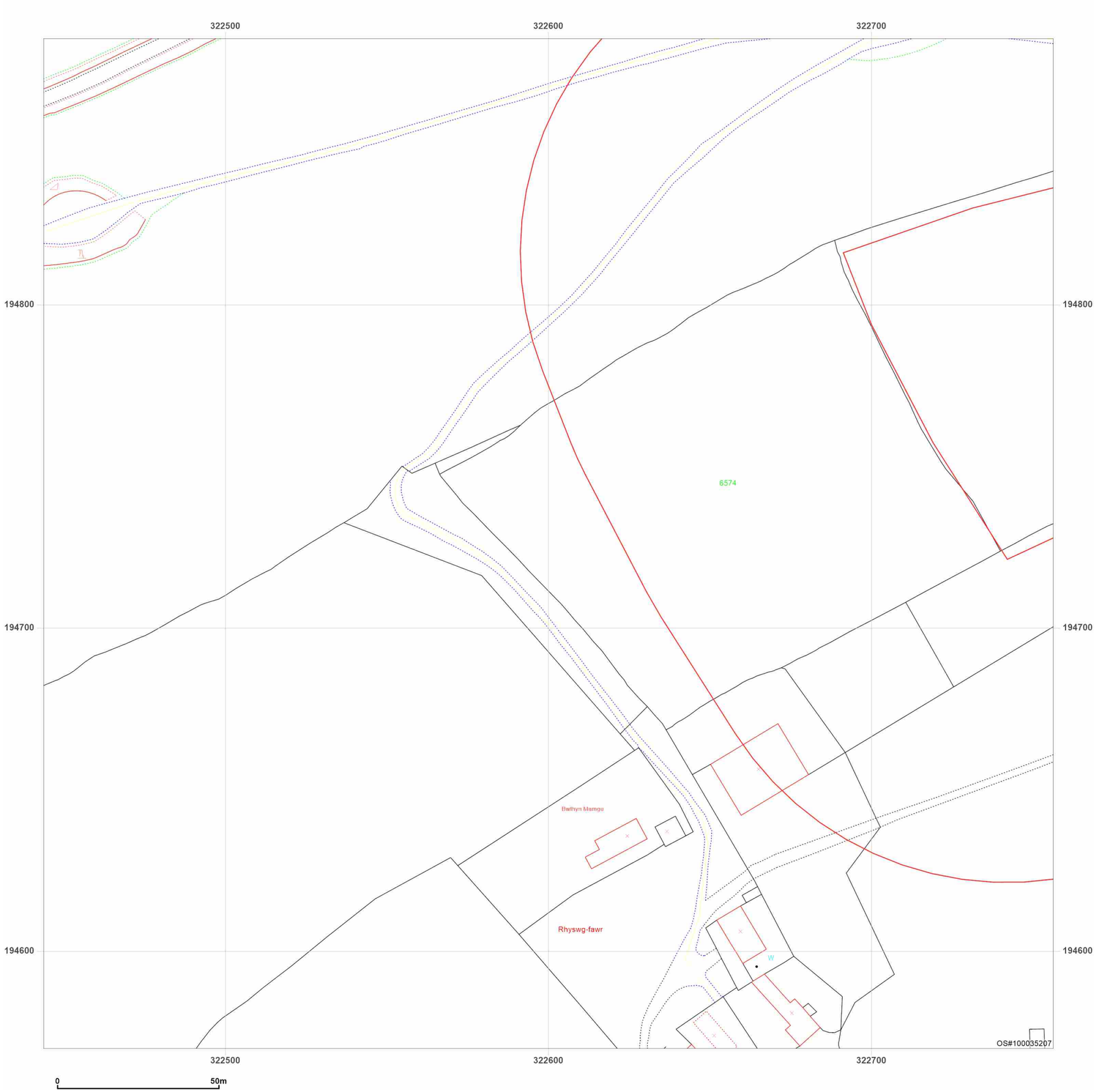
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_2_2
Grid Ref: 322600, 194726

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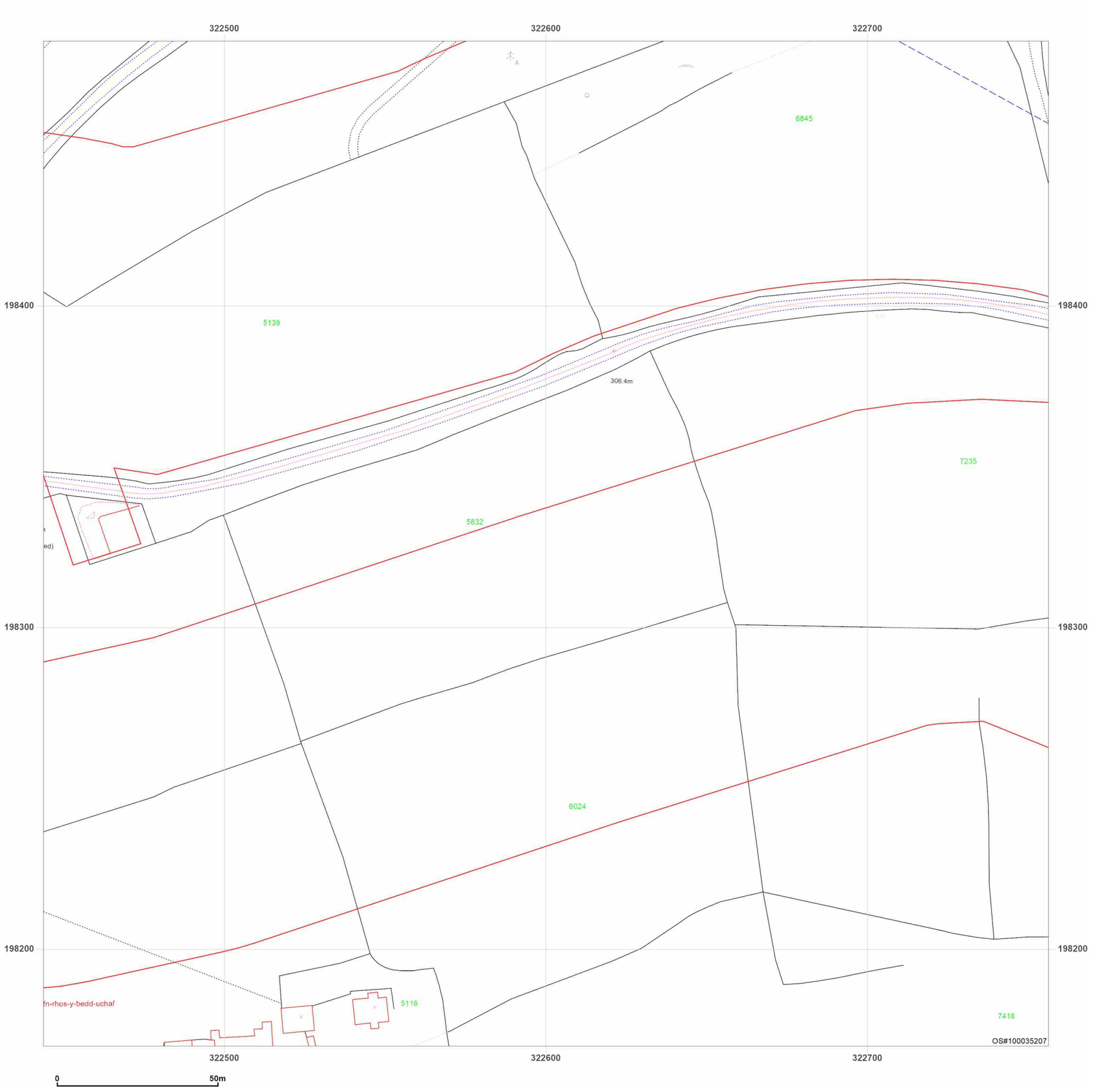
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_2_14
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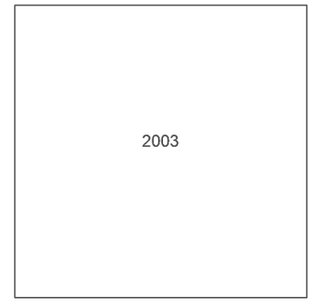
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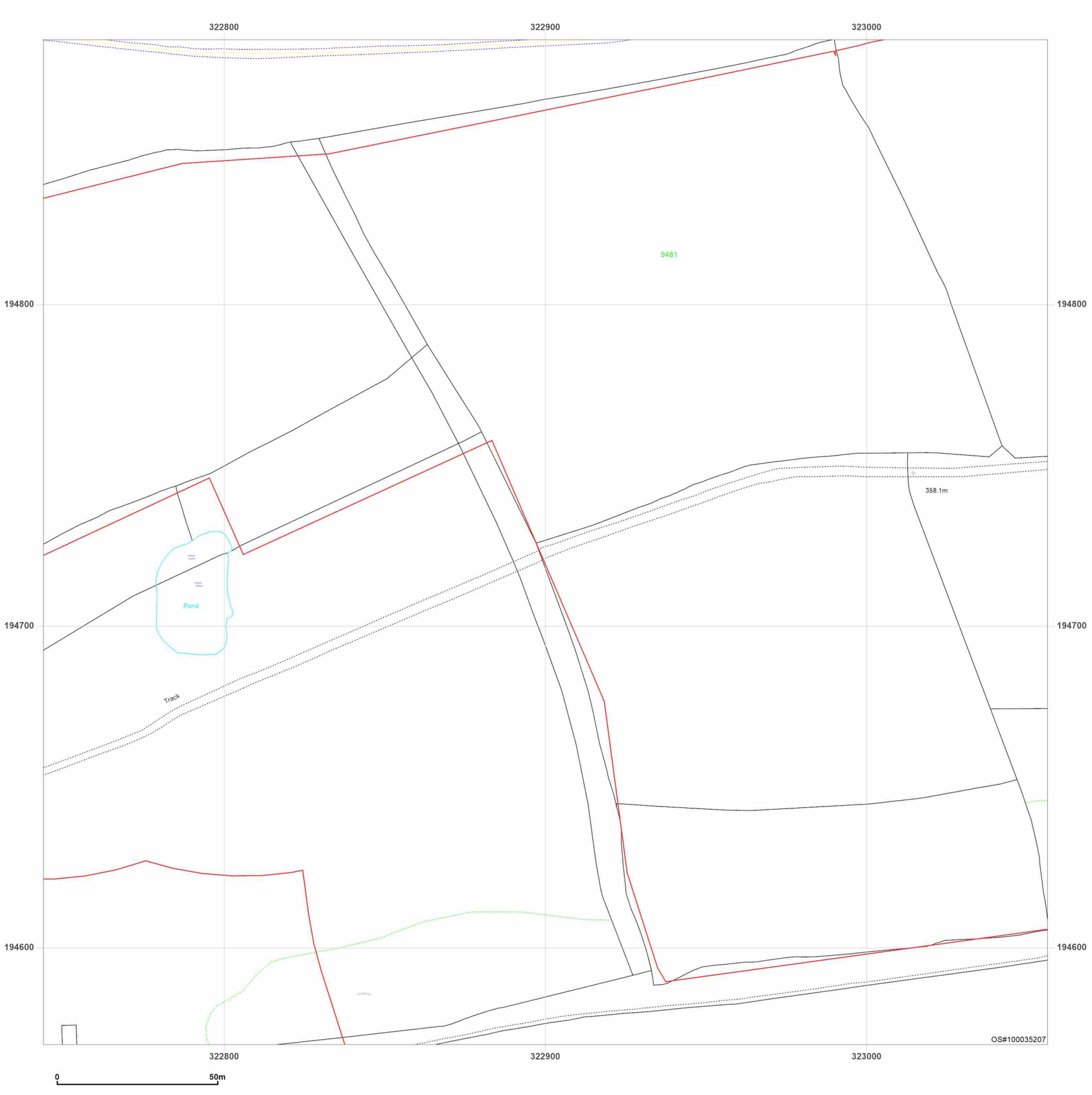
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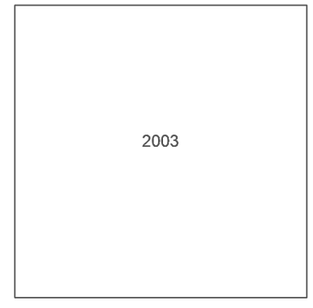
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Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_3_2
Grid Ref: 322900, 194726

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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Groundsure INSIGHTS

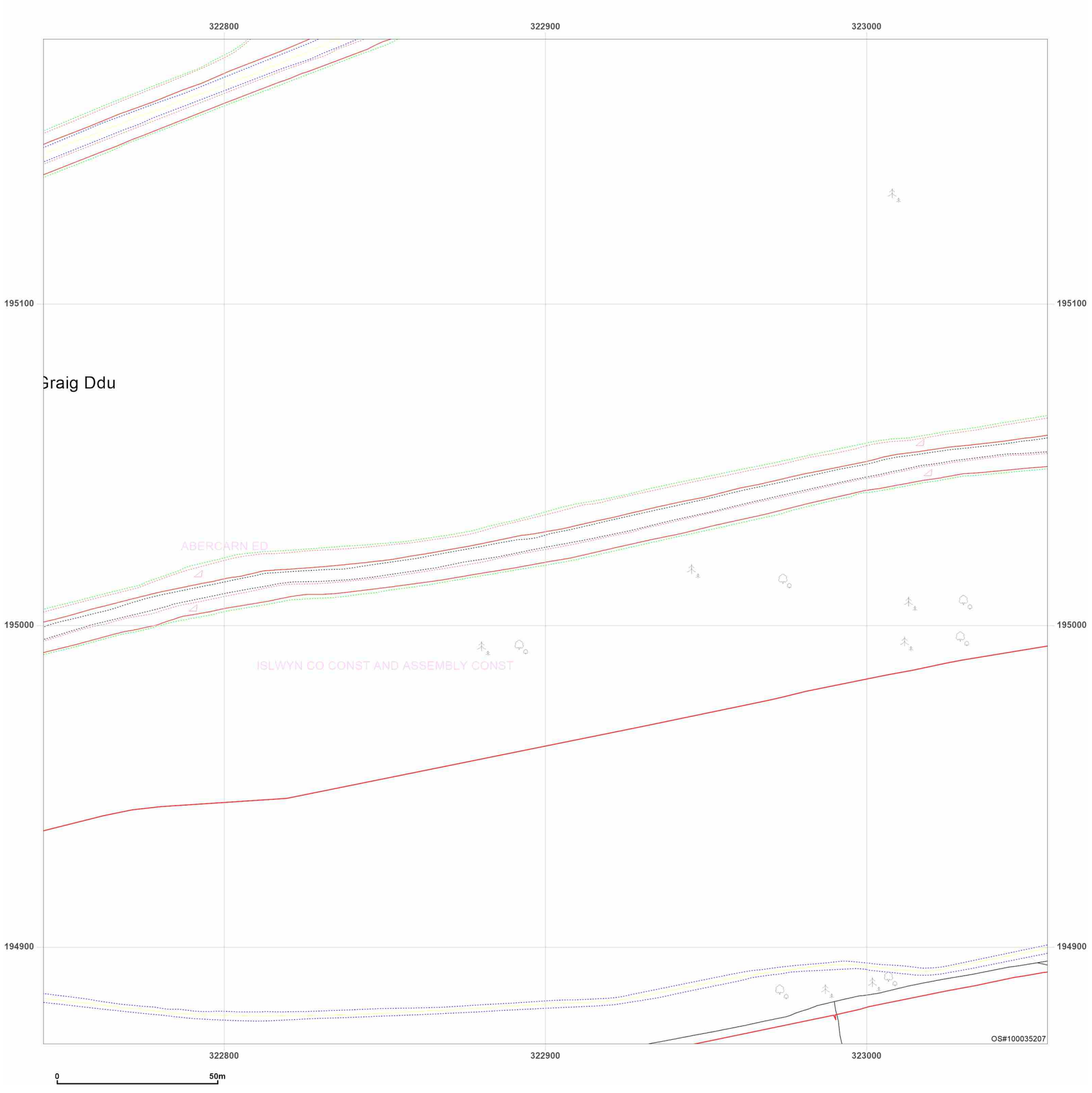
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_3_3
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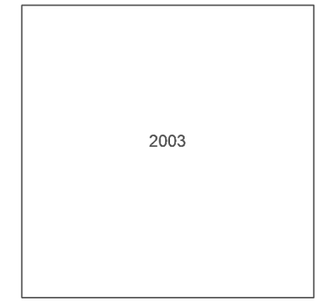
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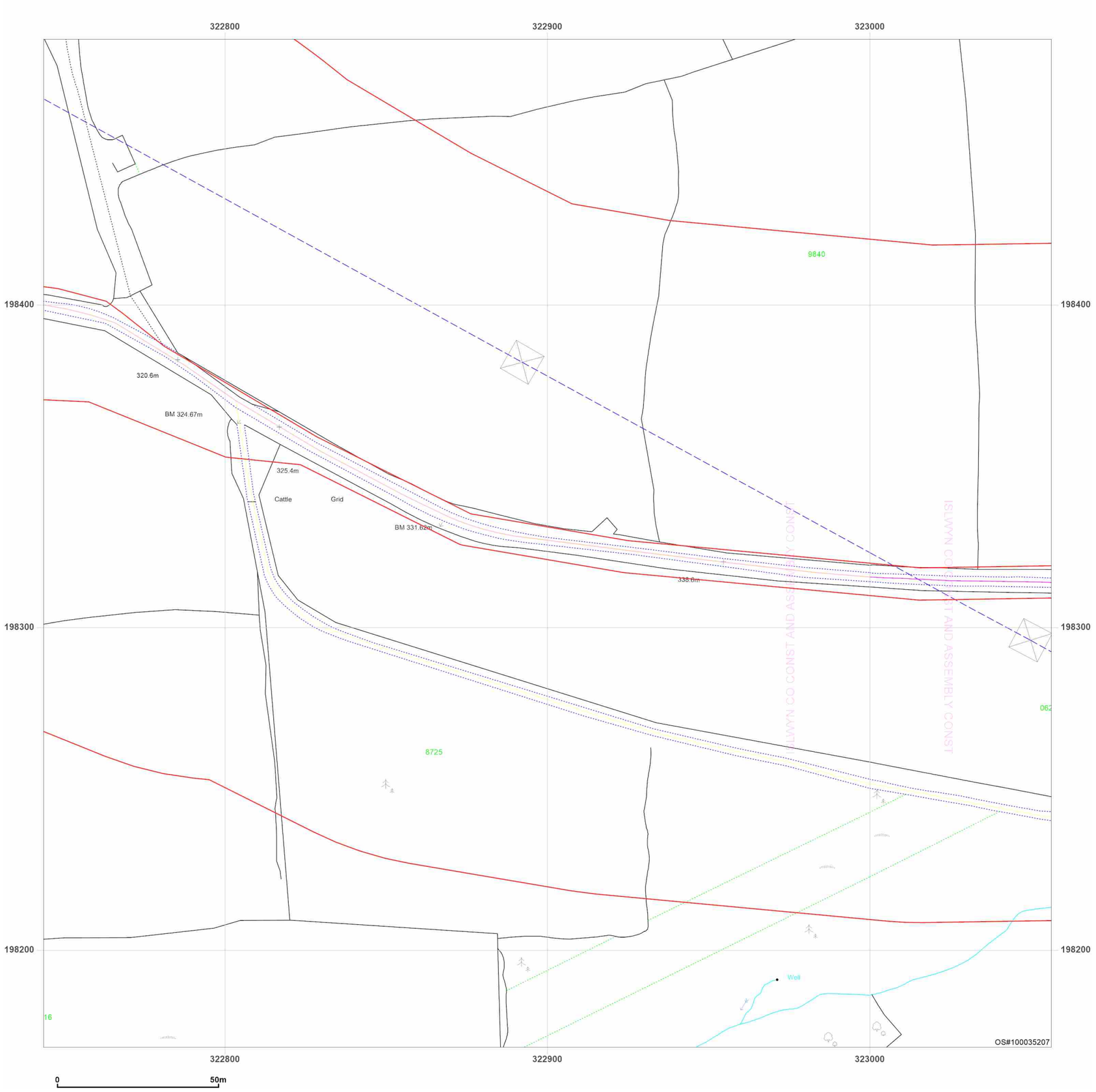
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_3_14
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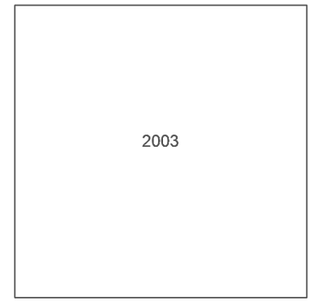
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Map date: **2003**

Scale: 1:1,250

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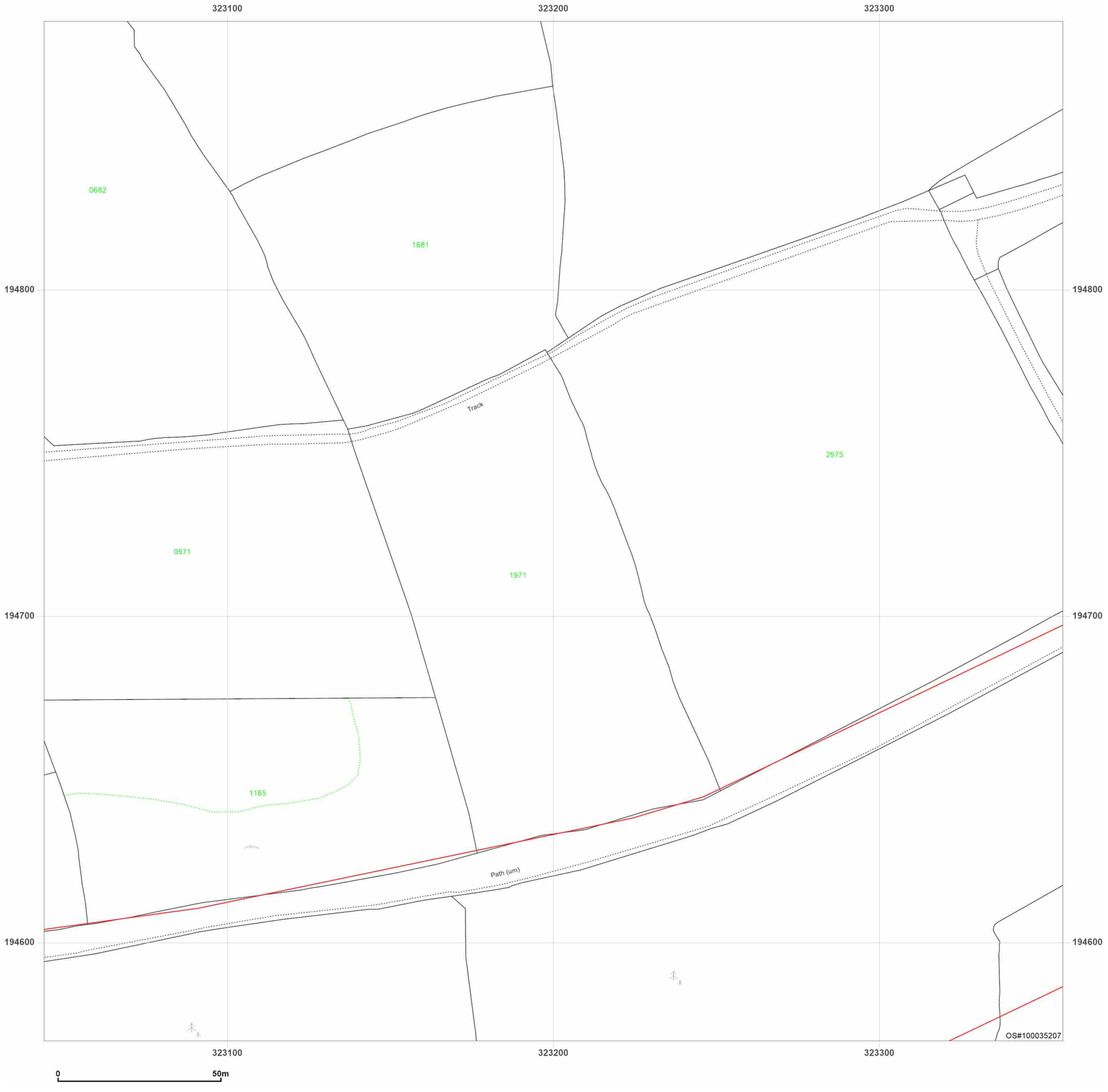


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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_4_2
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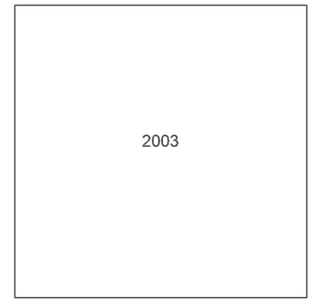
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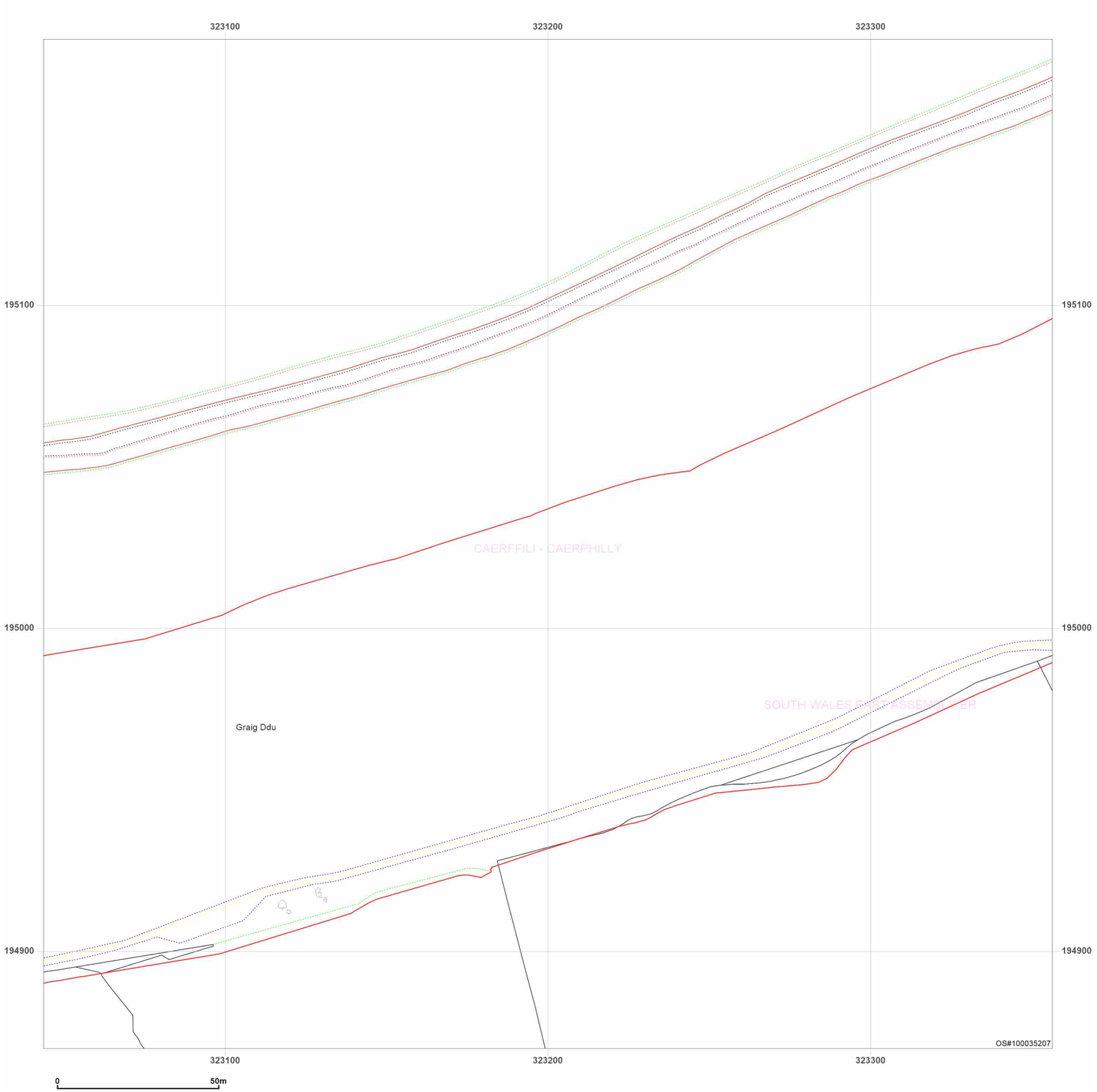
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_4_3
Grid Ref: 323200, 195026

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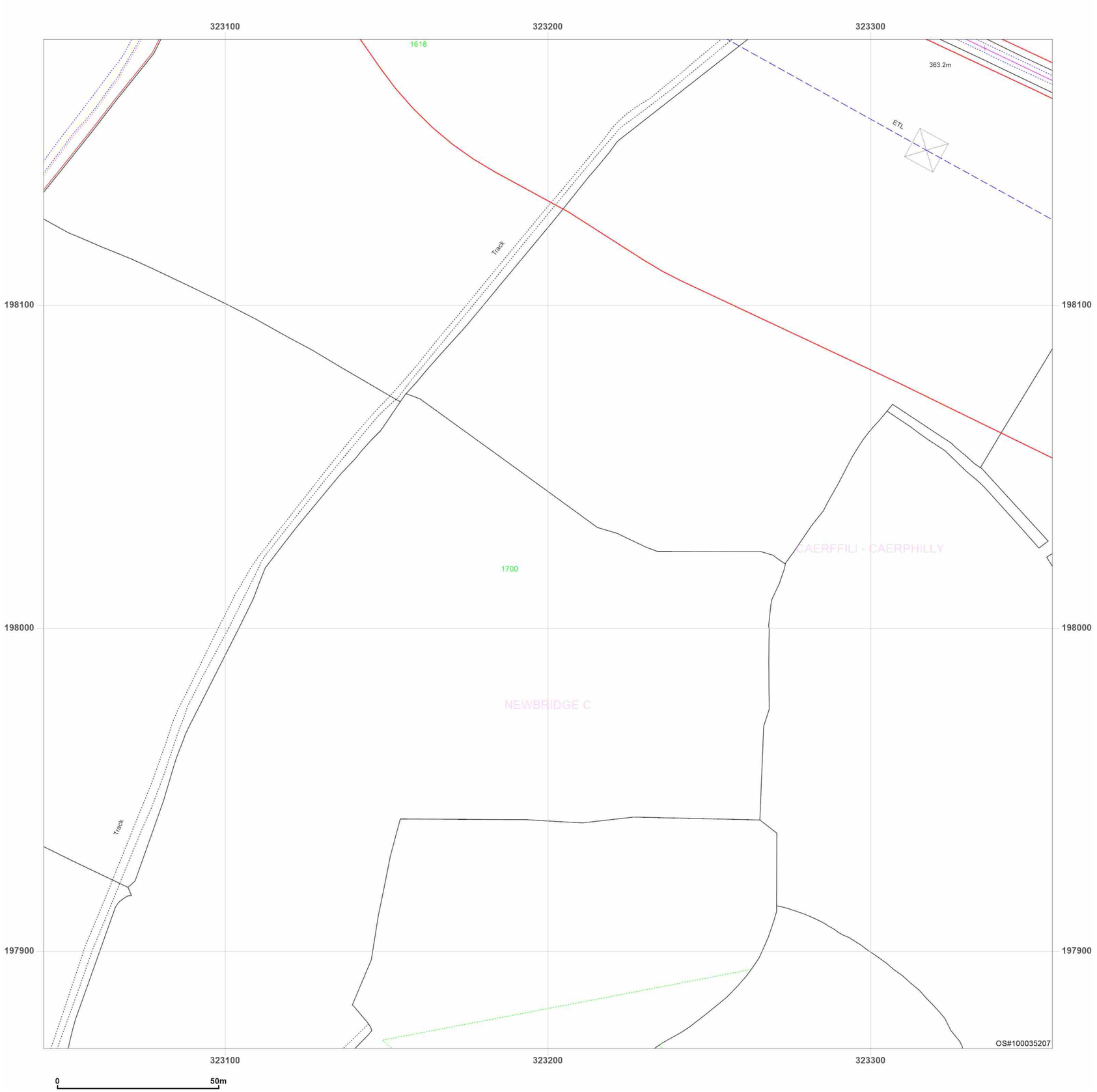
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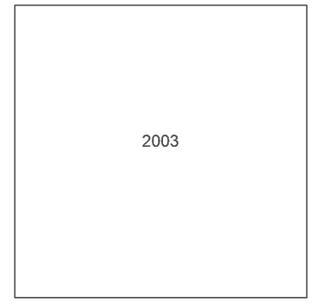
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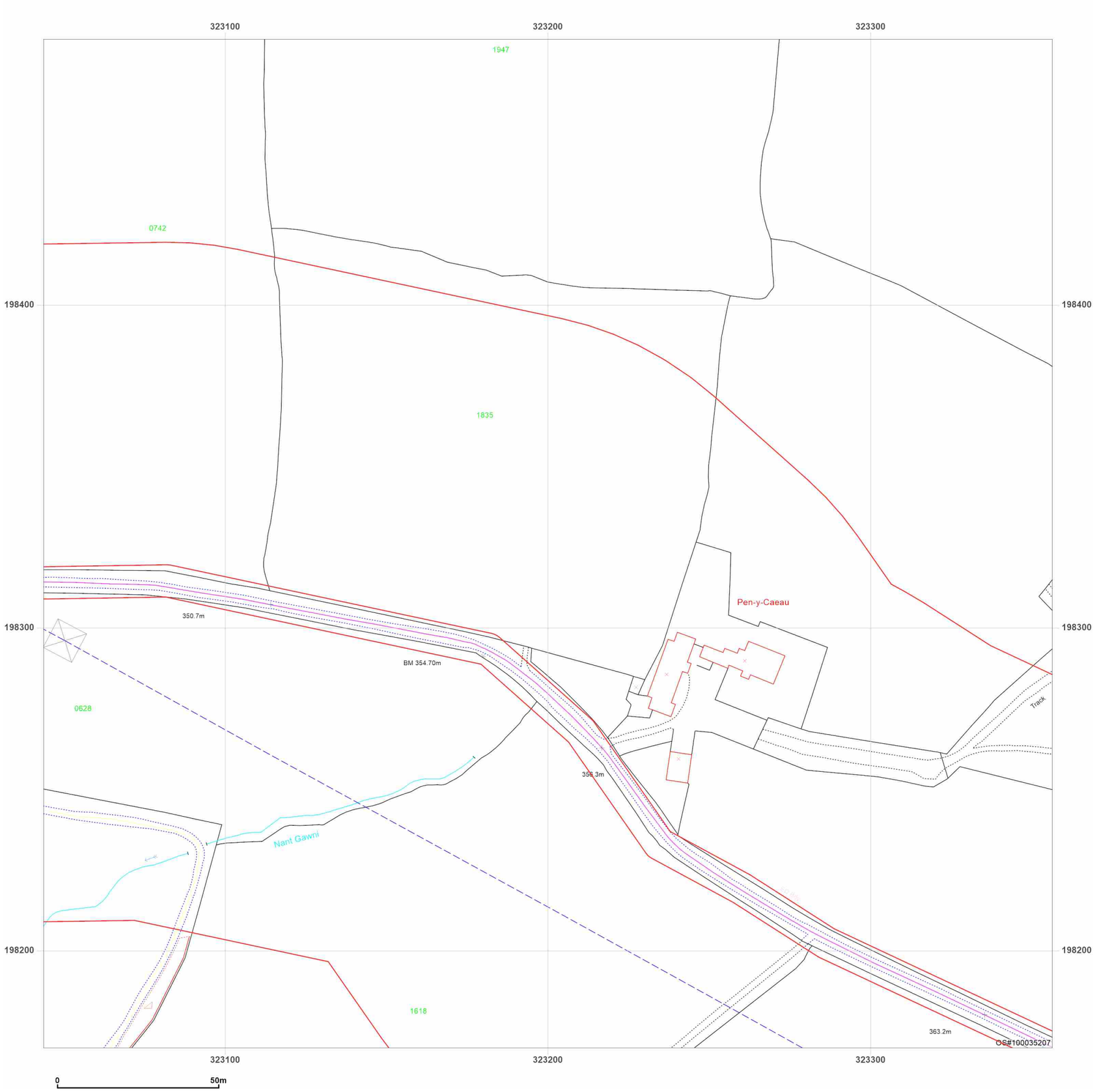
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_4_14
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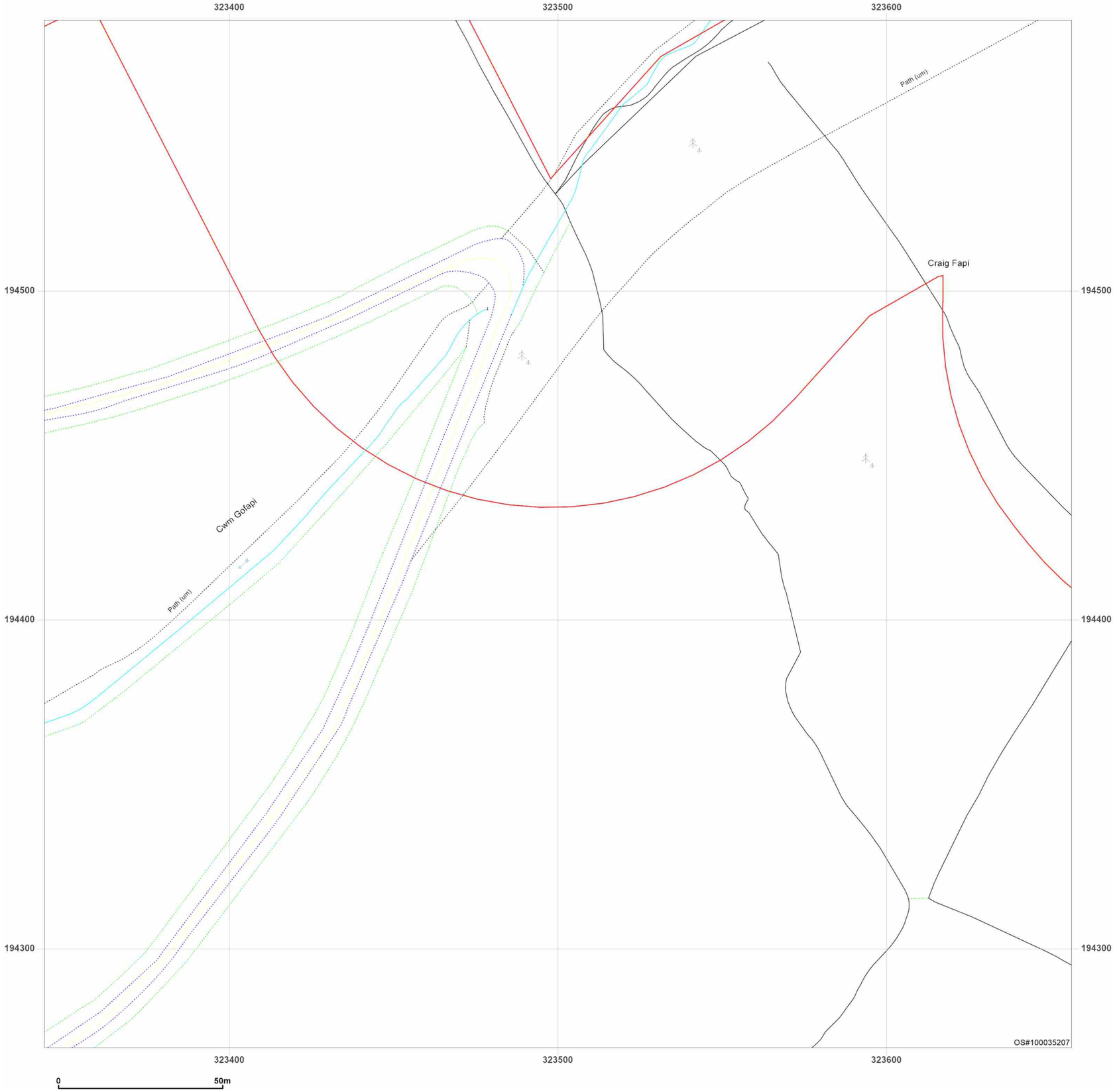
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Site Details:

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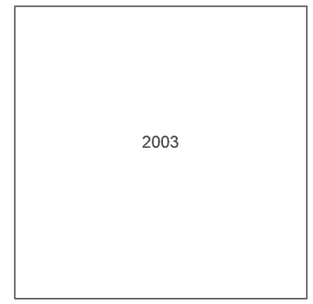
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_5_2
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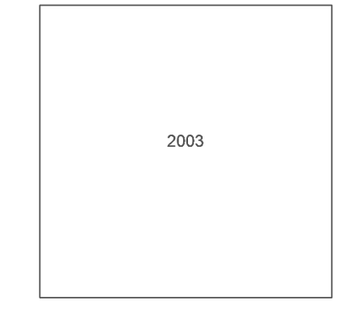
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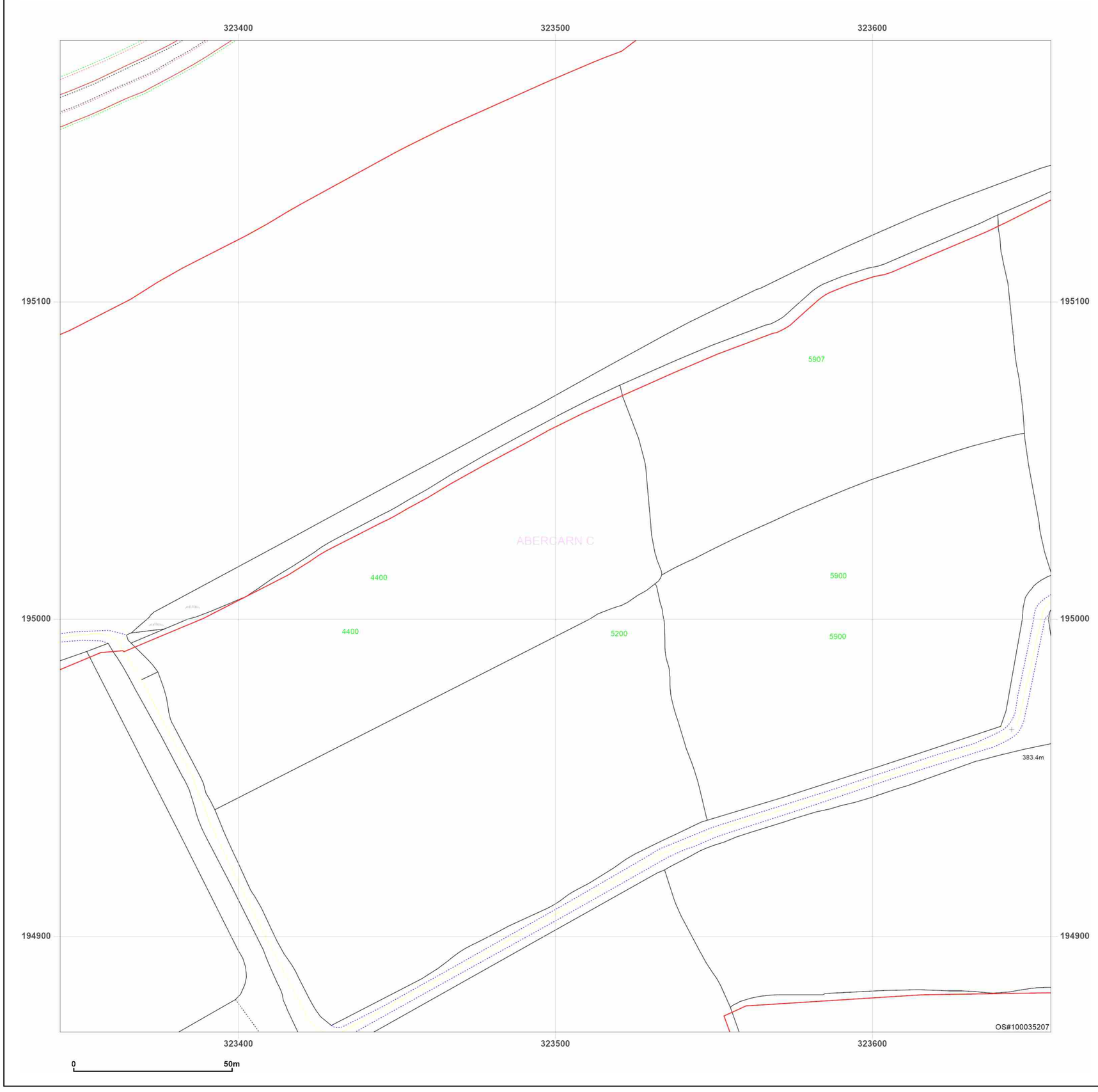
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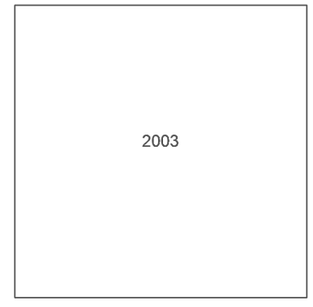
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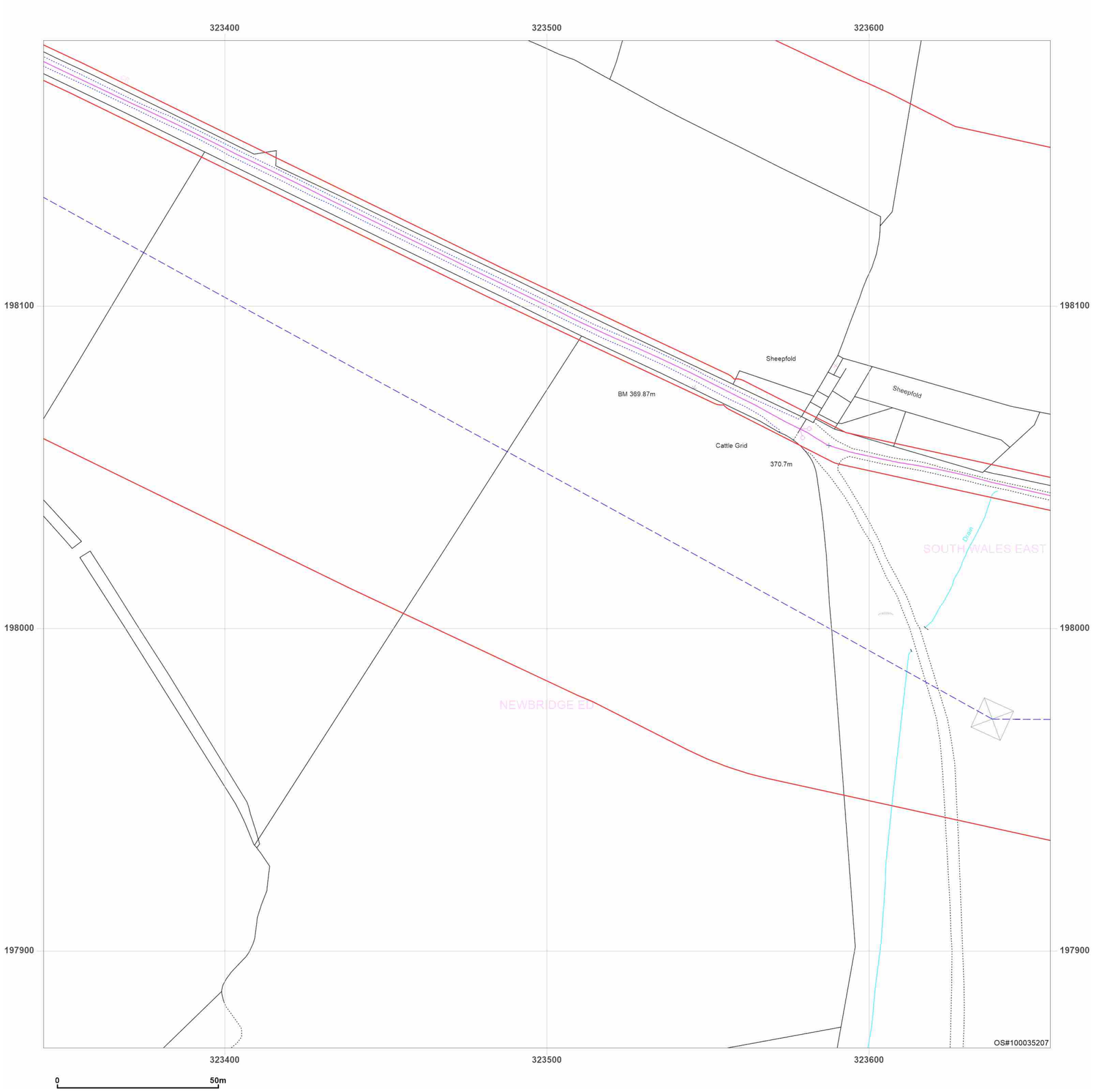
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Site Details:

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Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_5_13
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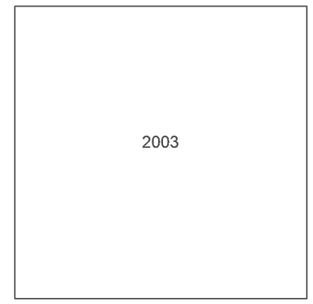
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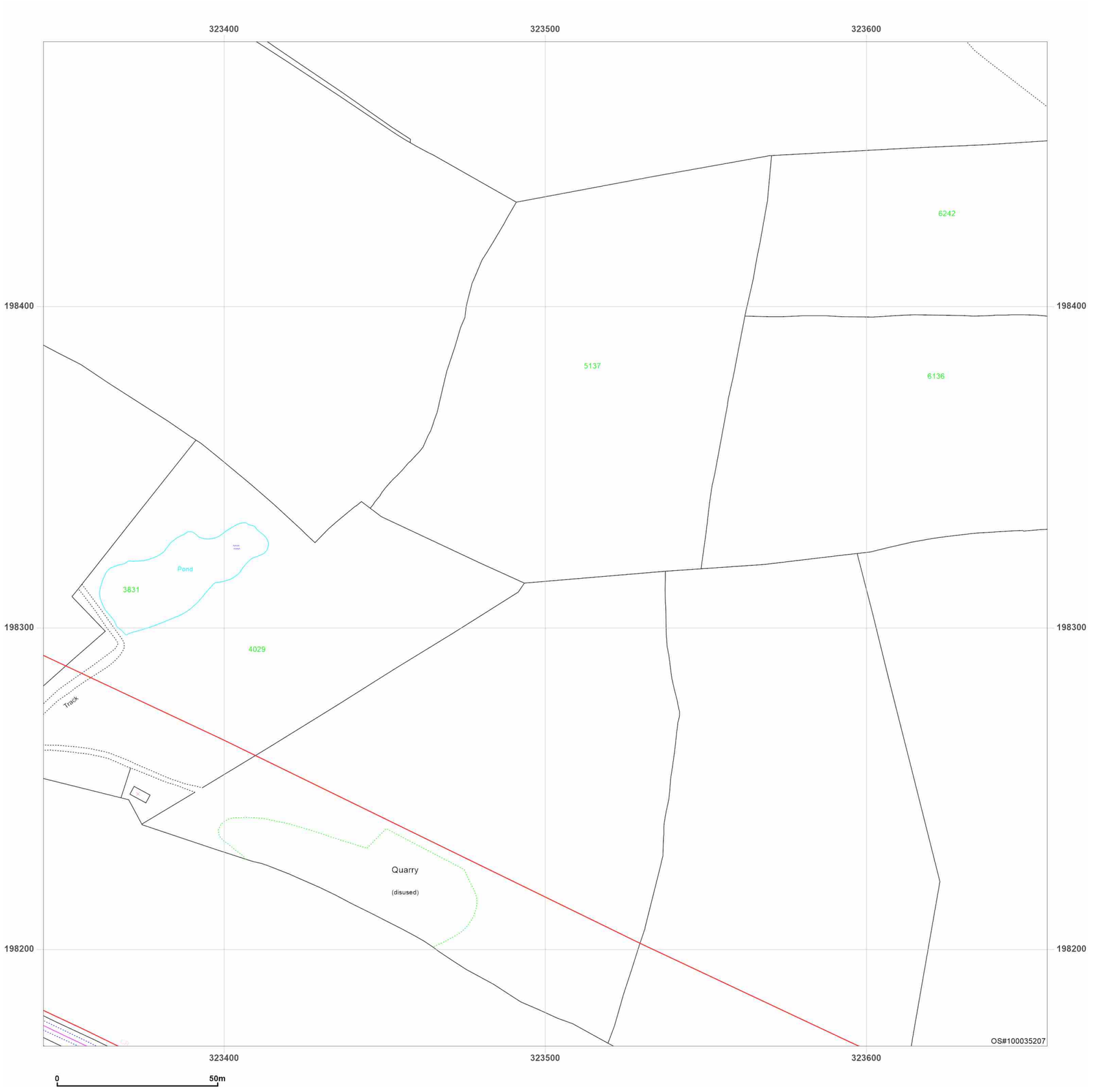
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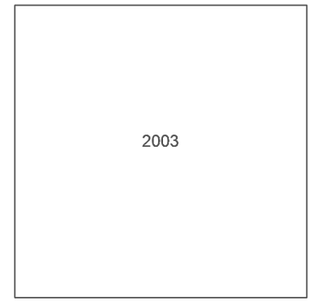
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_5_14
Grid Ref: 323500, 198326

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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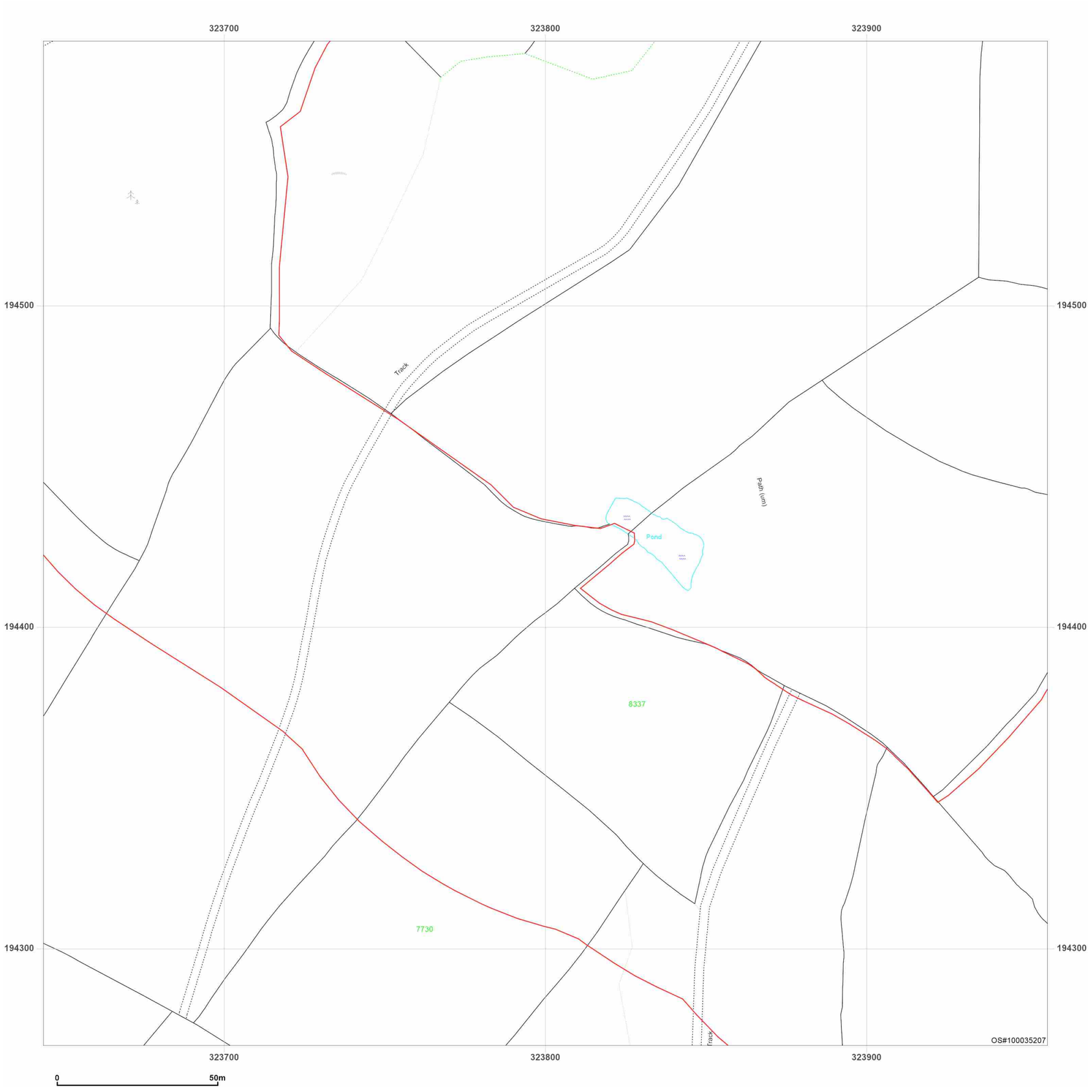
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_6_1
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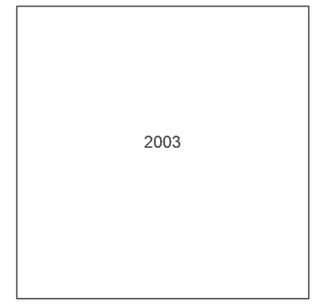
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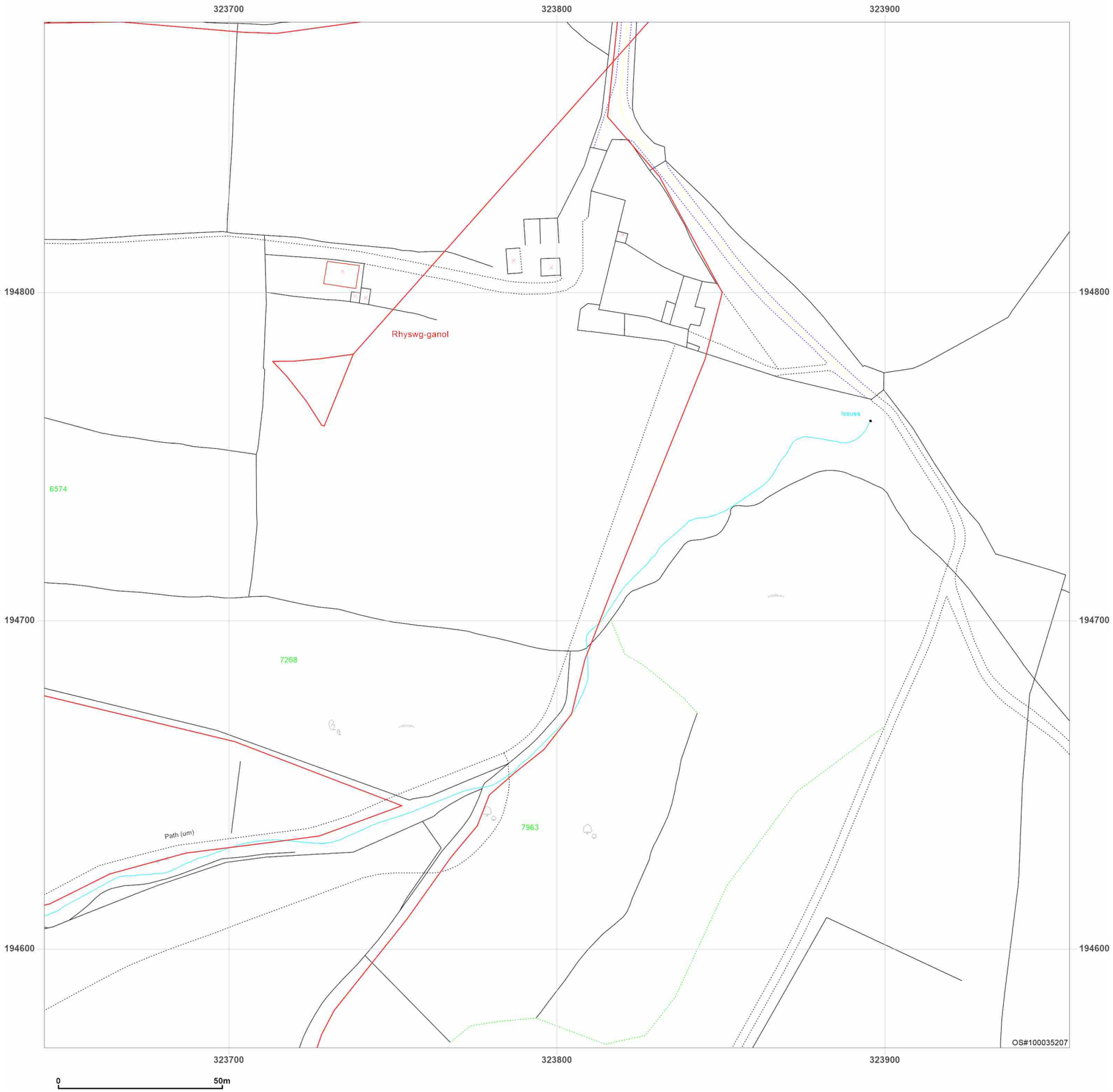
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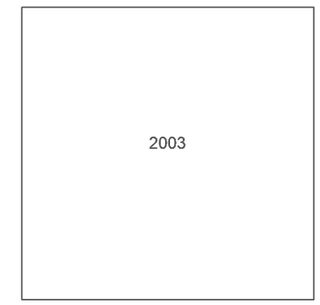
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Grid Ref: 323800, 194726

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Groundsure INSIGHTS

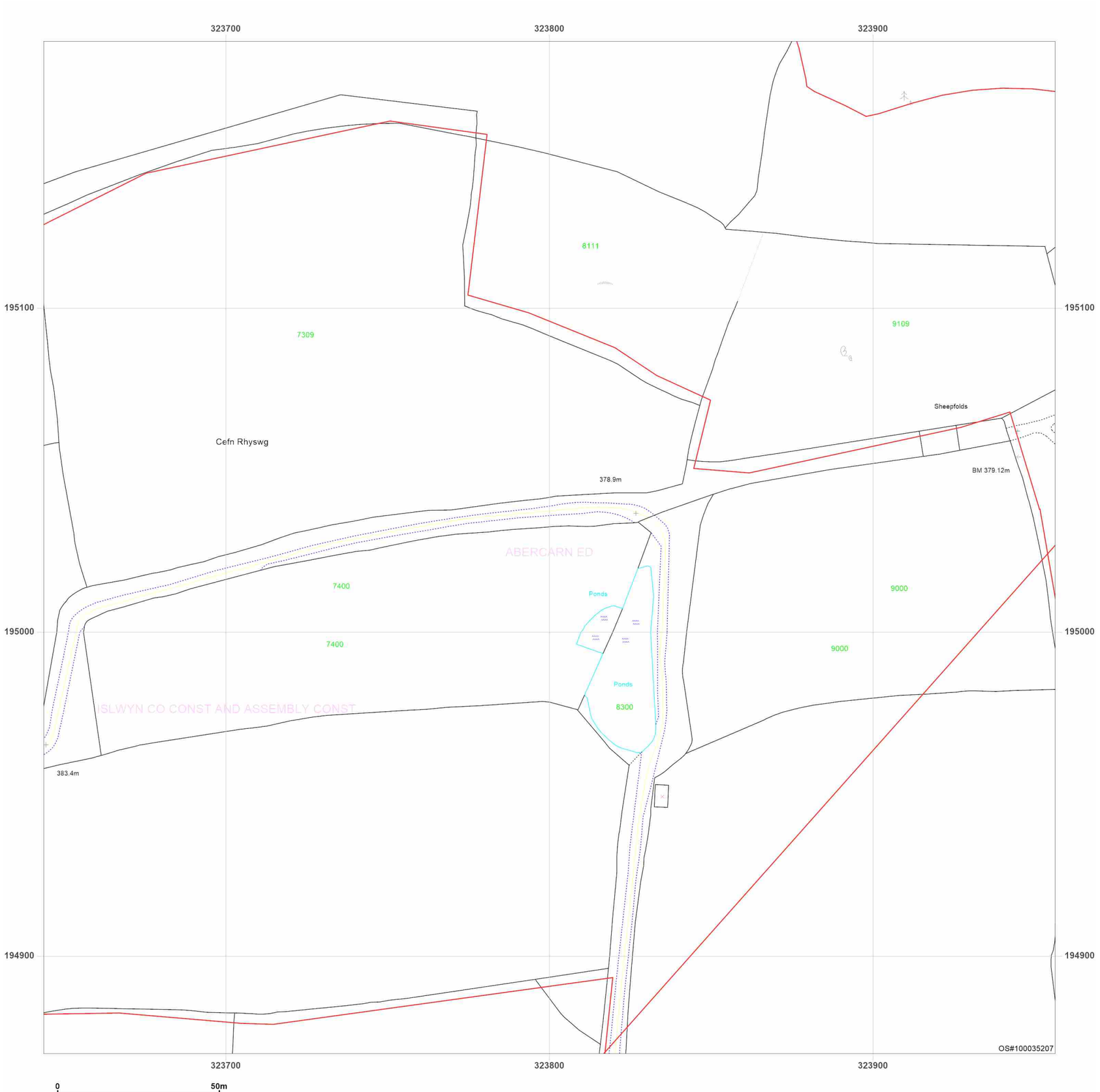
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_6_3
Grid Ref: 323800, 195026

Map Name: LandLine
Map date: **2003**
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Groundsure INSIGHTS

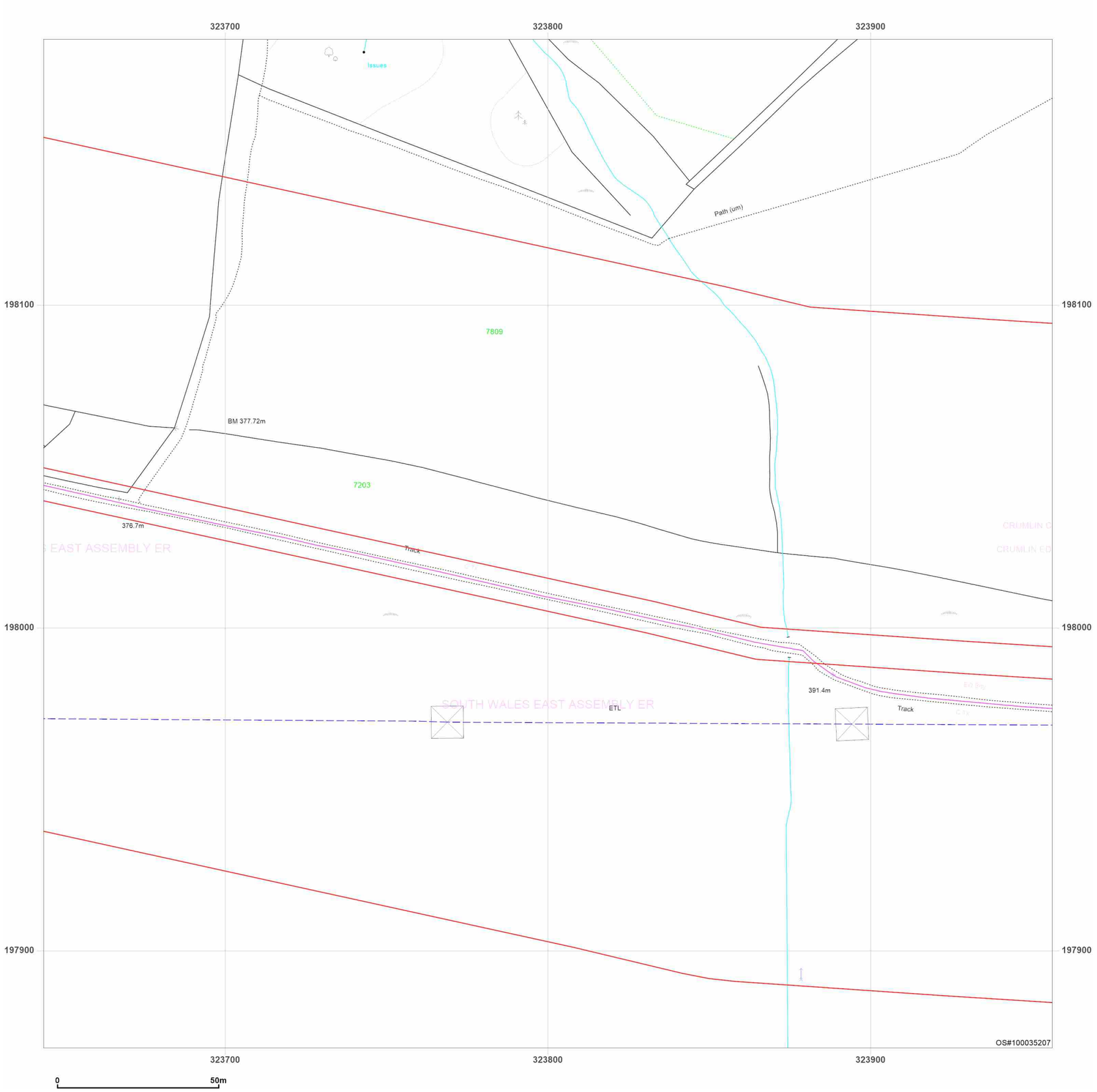
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_6_13
Grid Ref: 323800, 198026

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Map date: **2003**
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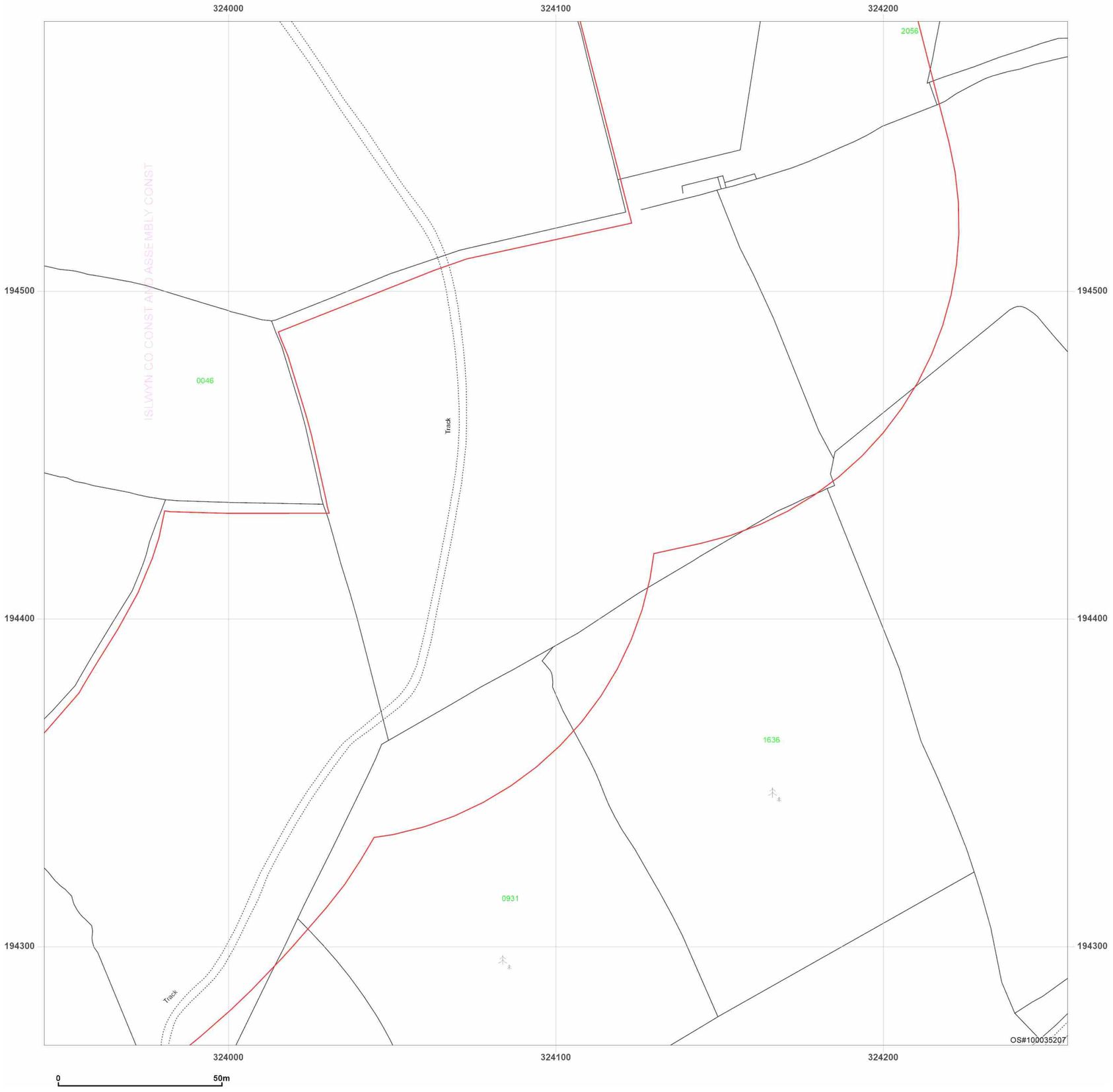
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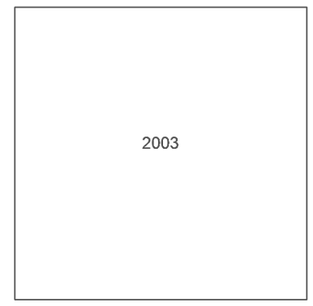
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Map Name: LandLine
Map date: **2003**
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Groundsure INSIGHTS

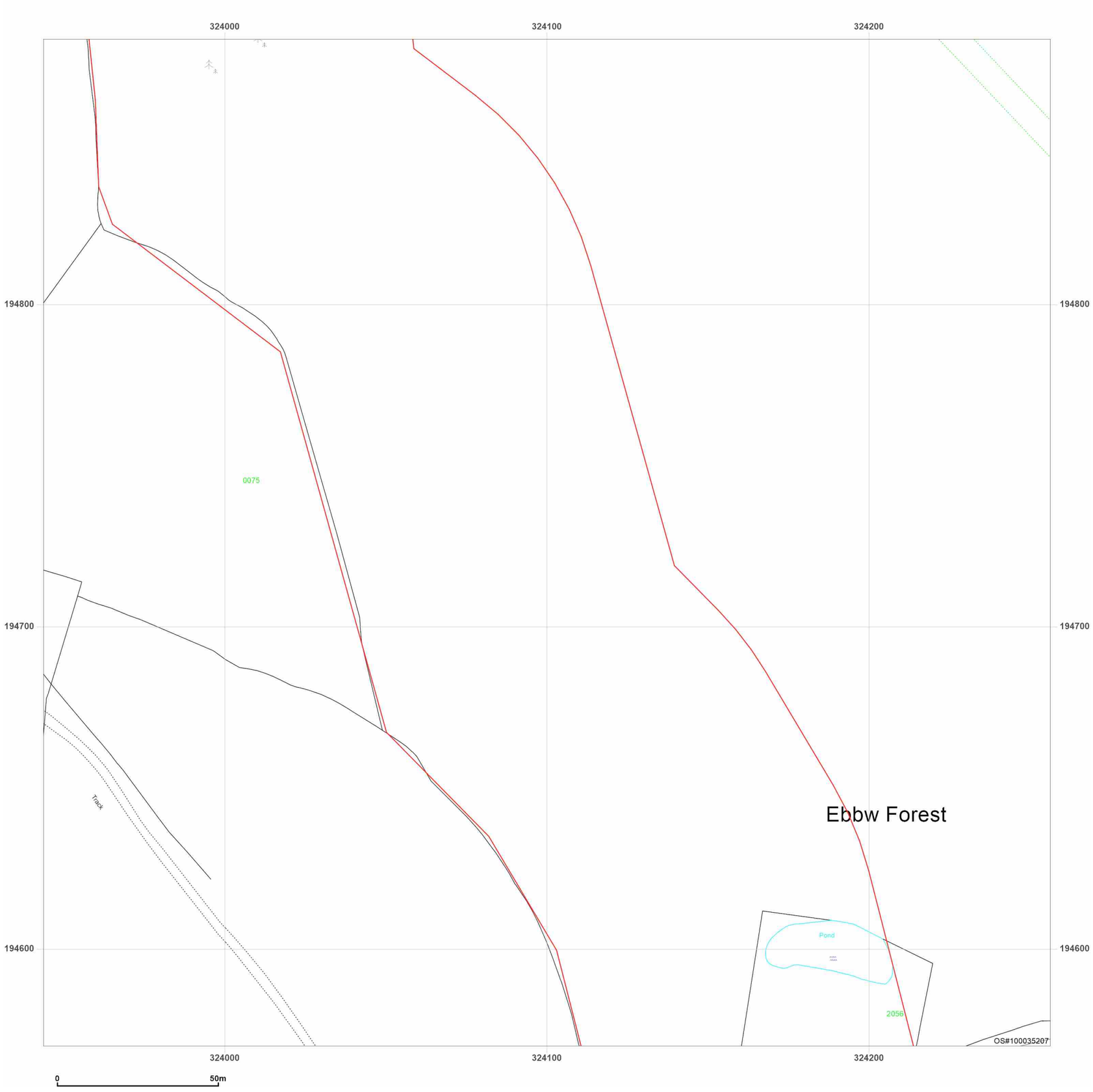
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Site Details:

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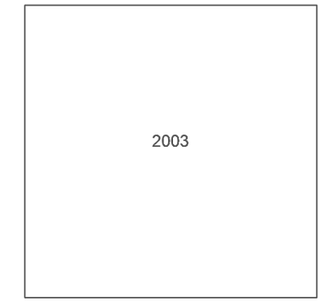
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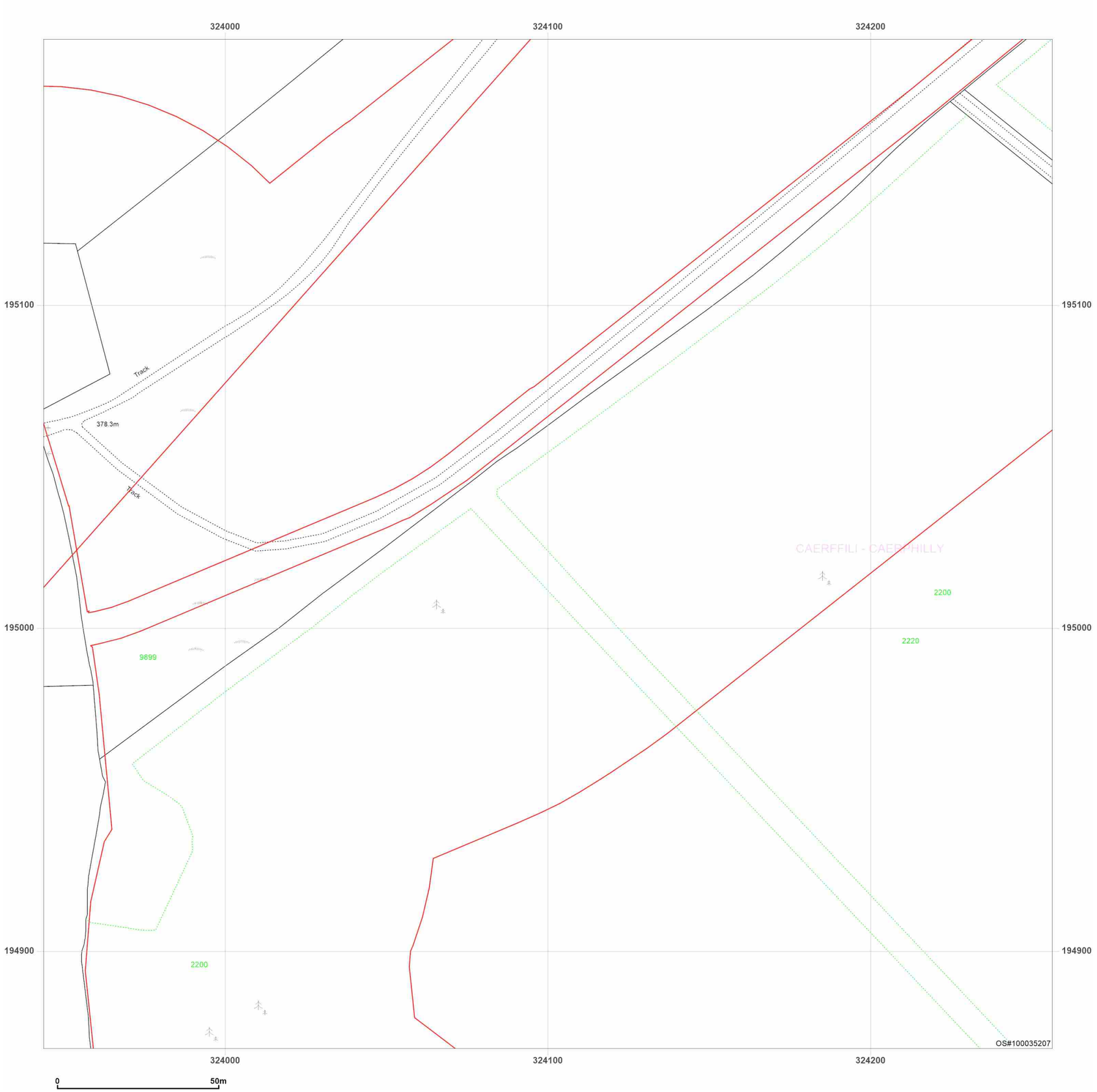


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Site Details:

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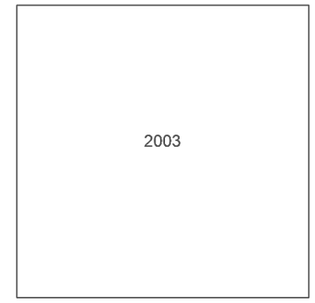
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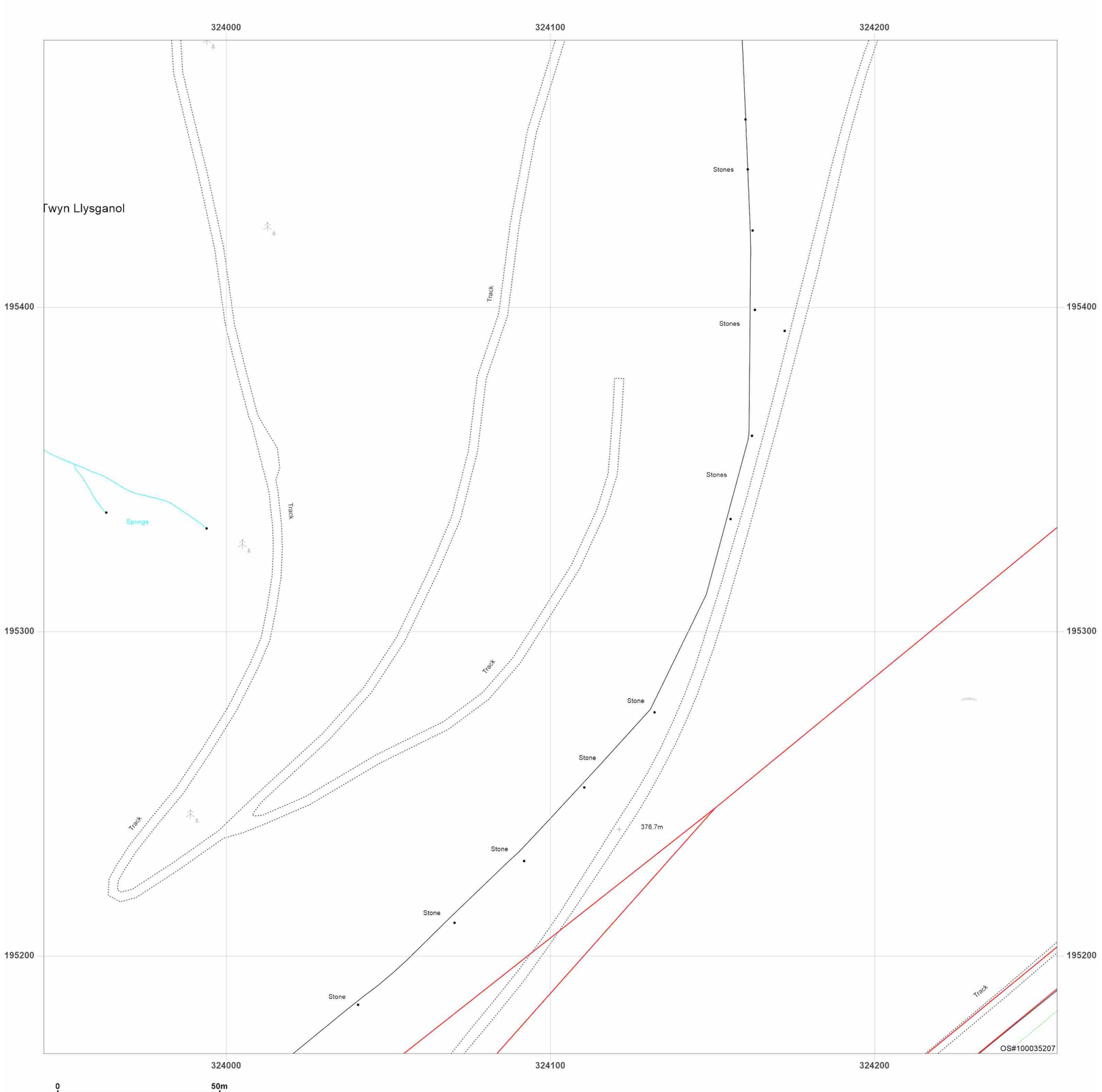
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_7_4
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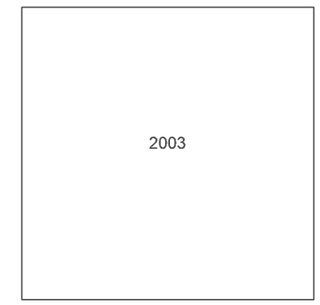
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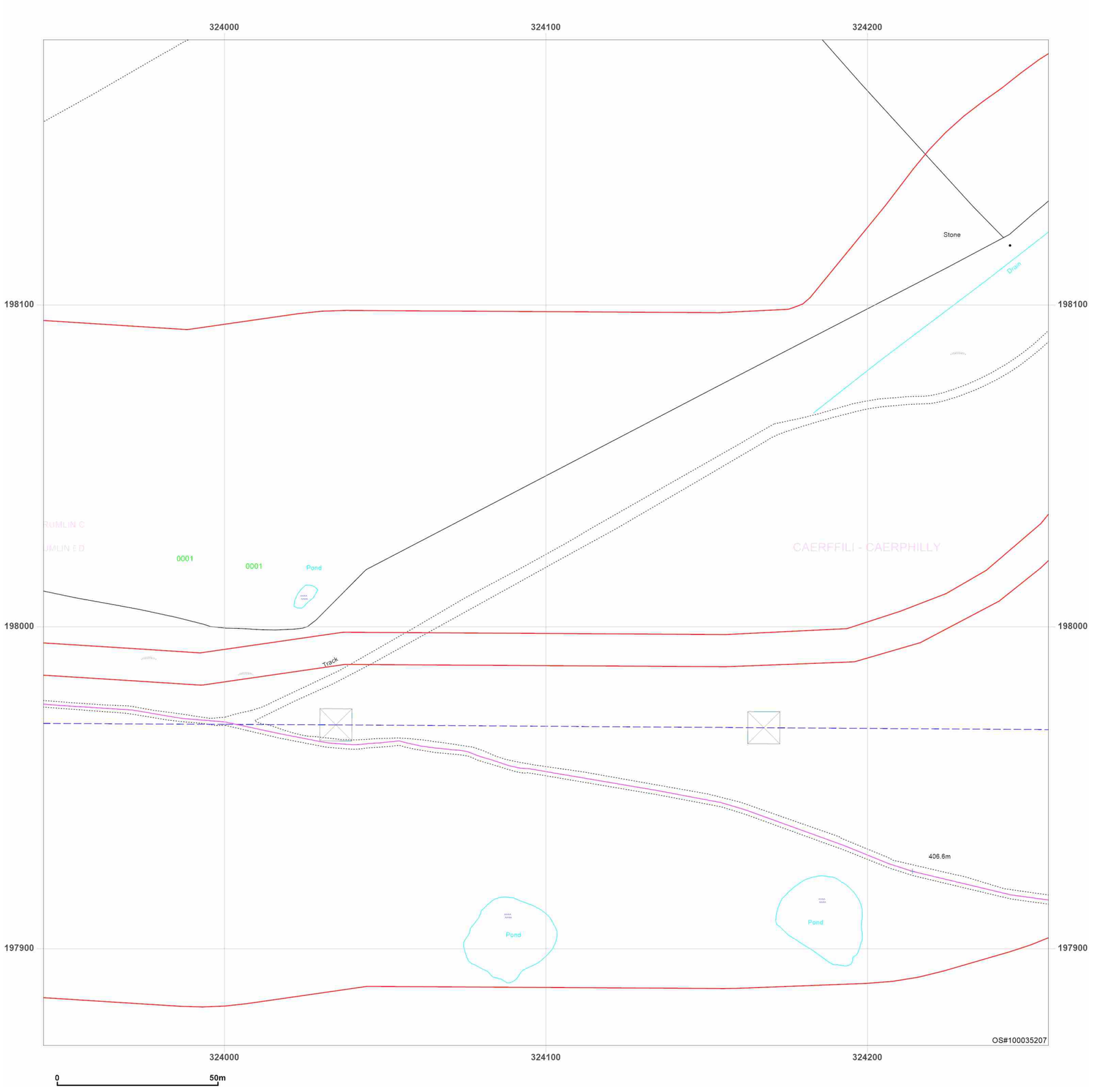
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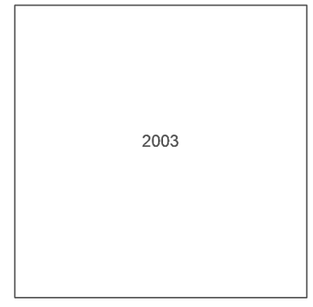
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_7_13
Grid Ref: 324100, 198026

Map Name: LandLine
Map date: **2003**
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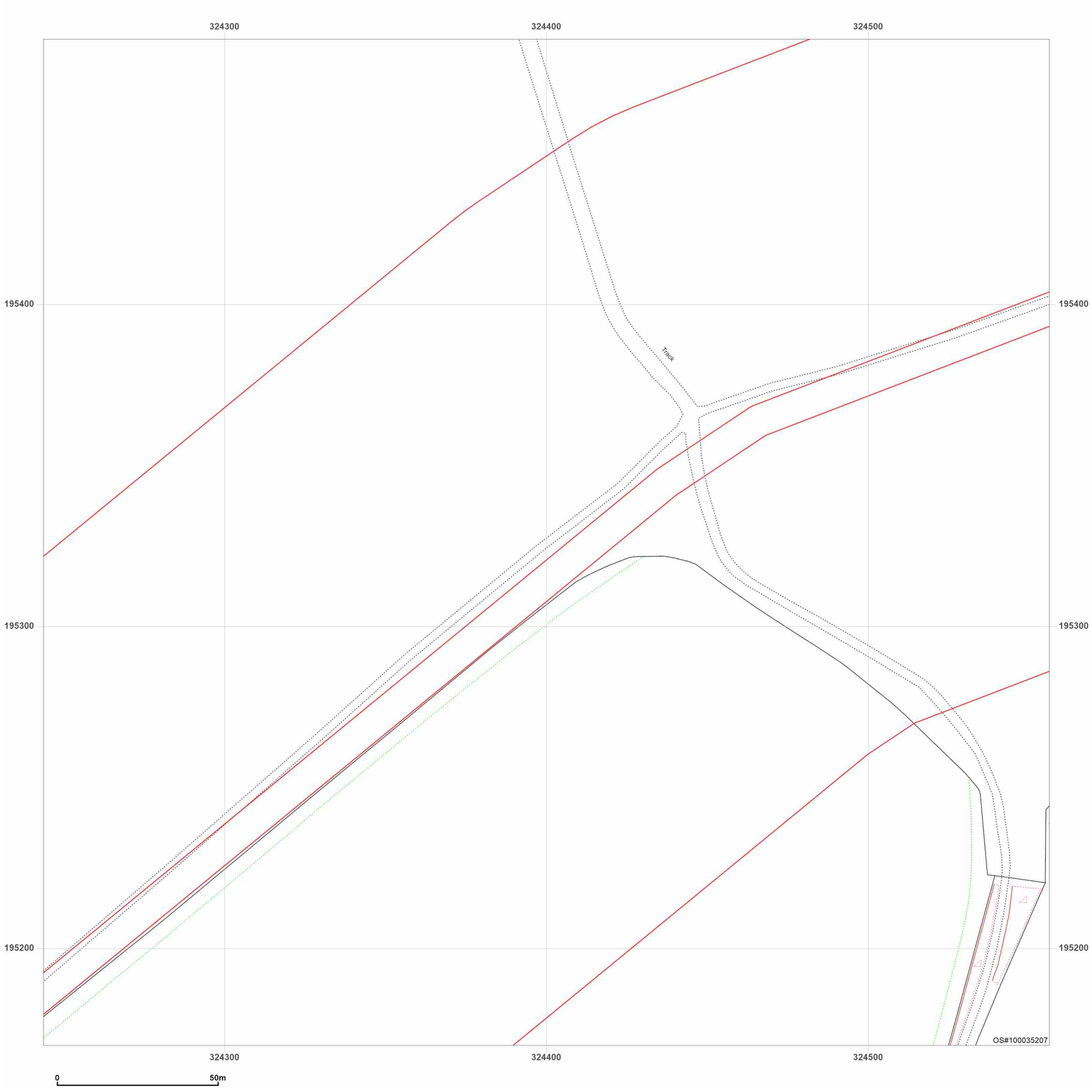
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_8_4
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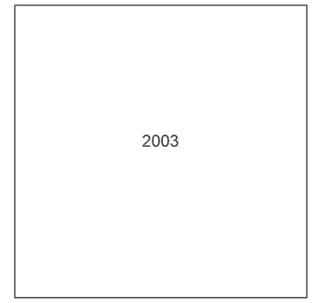
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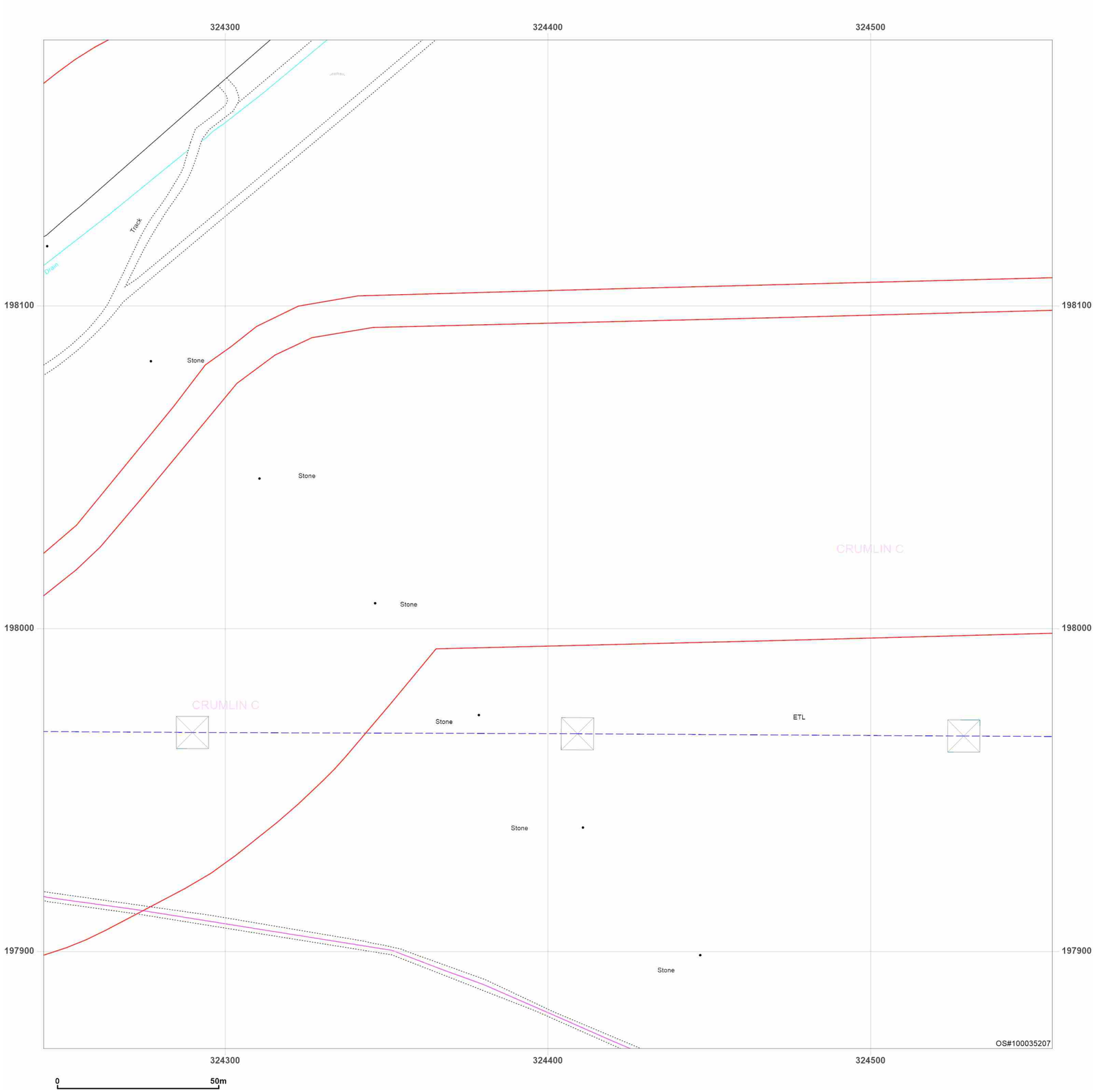
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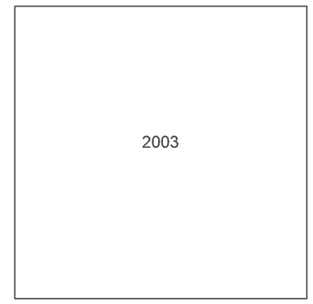
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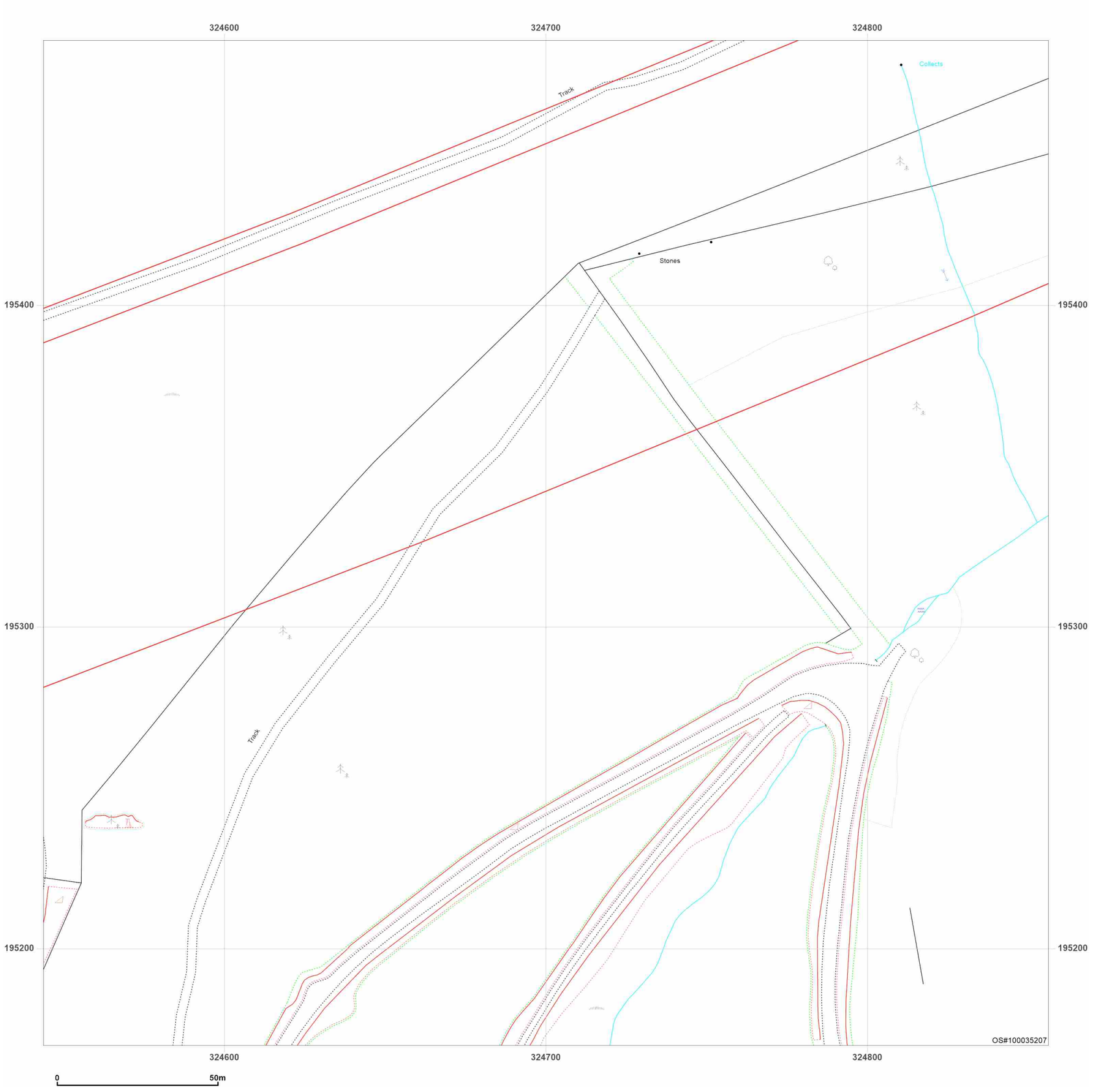
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_9_4
Grid Ref: 324700, 195326

Map Name: LandLine
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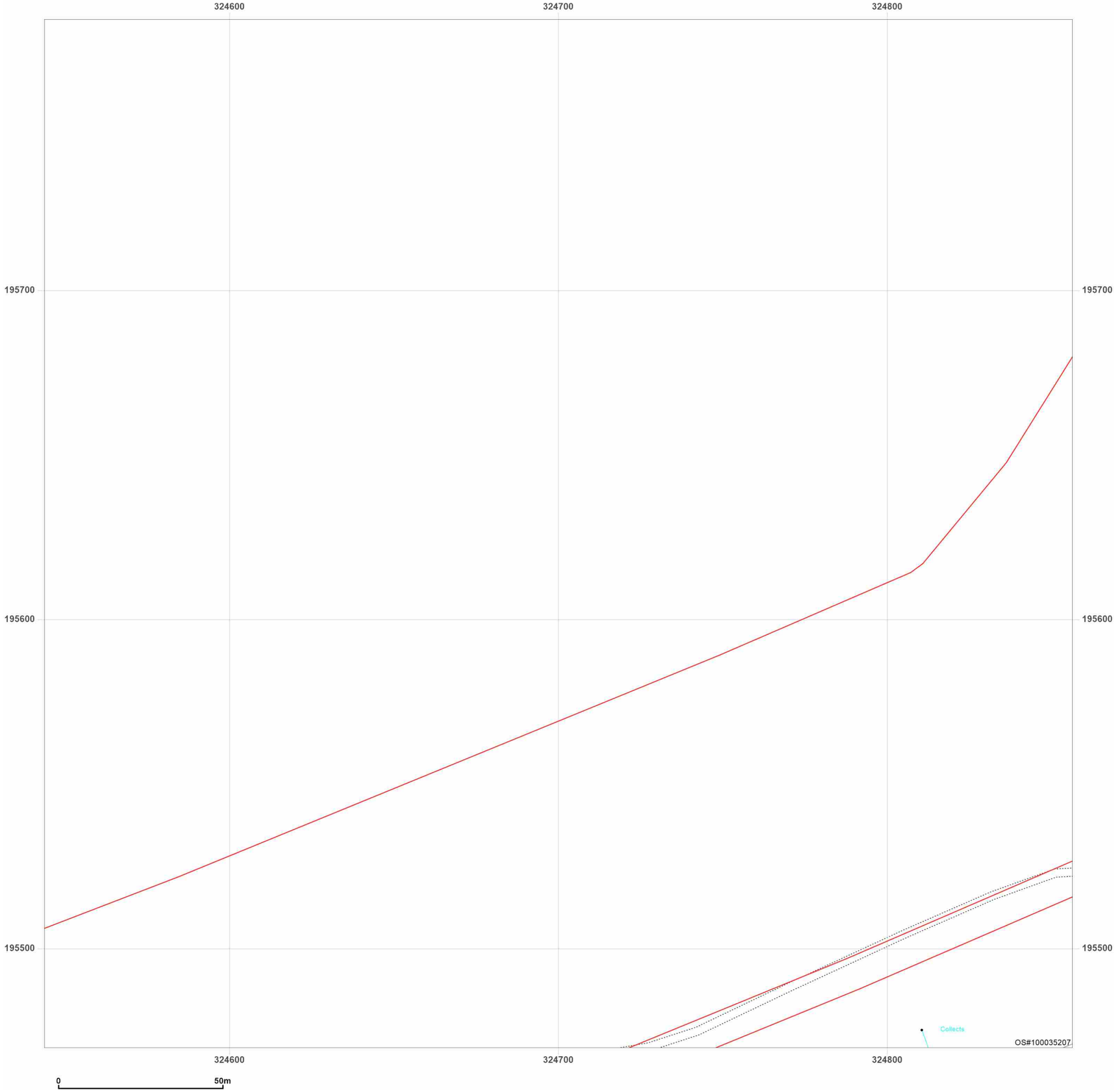
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Site Details:

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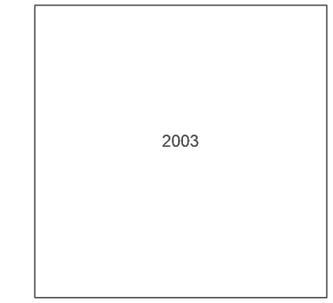
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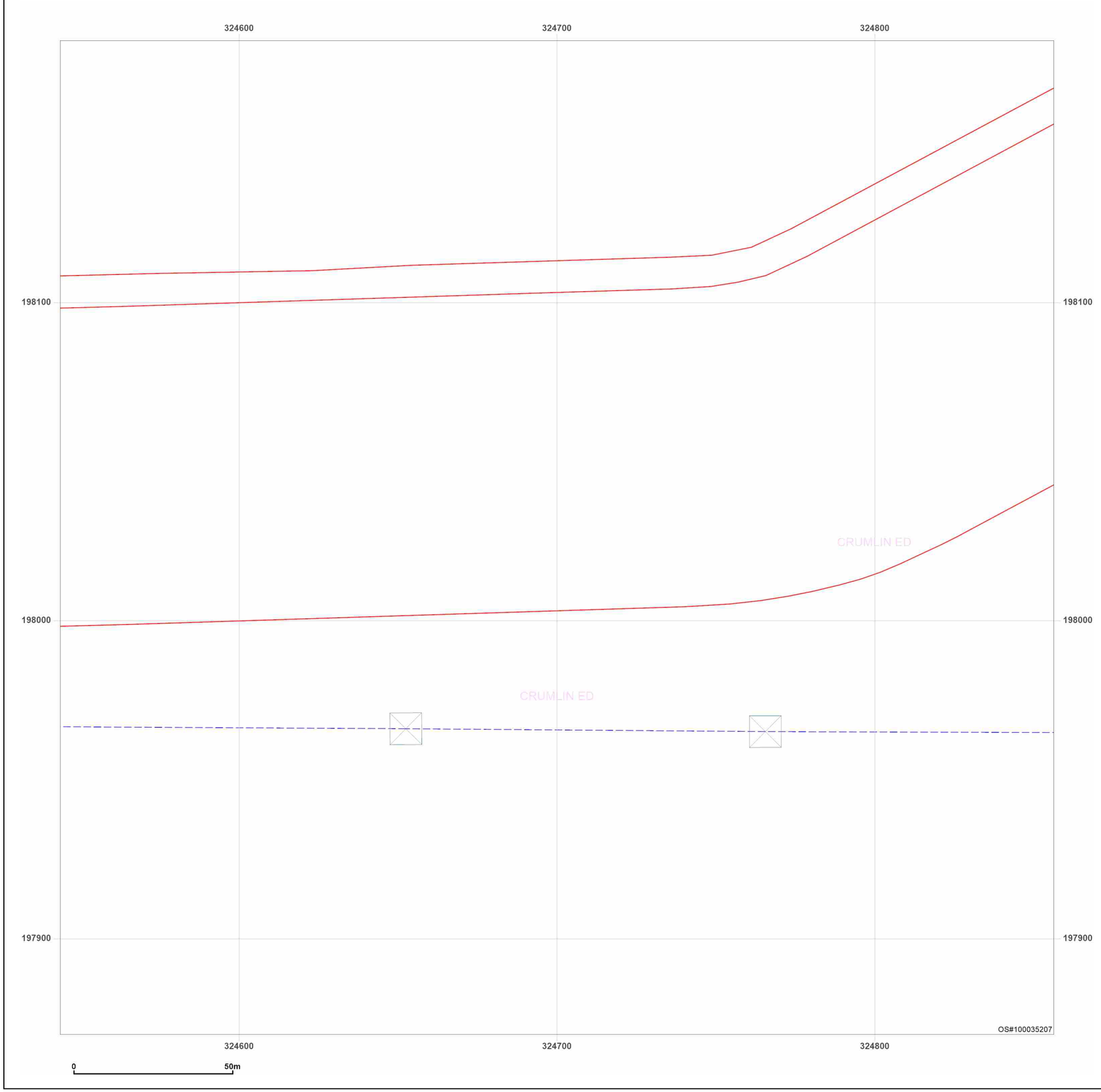
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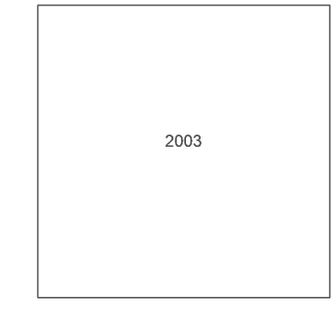
Site Details:

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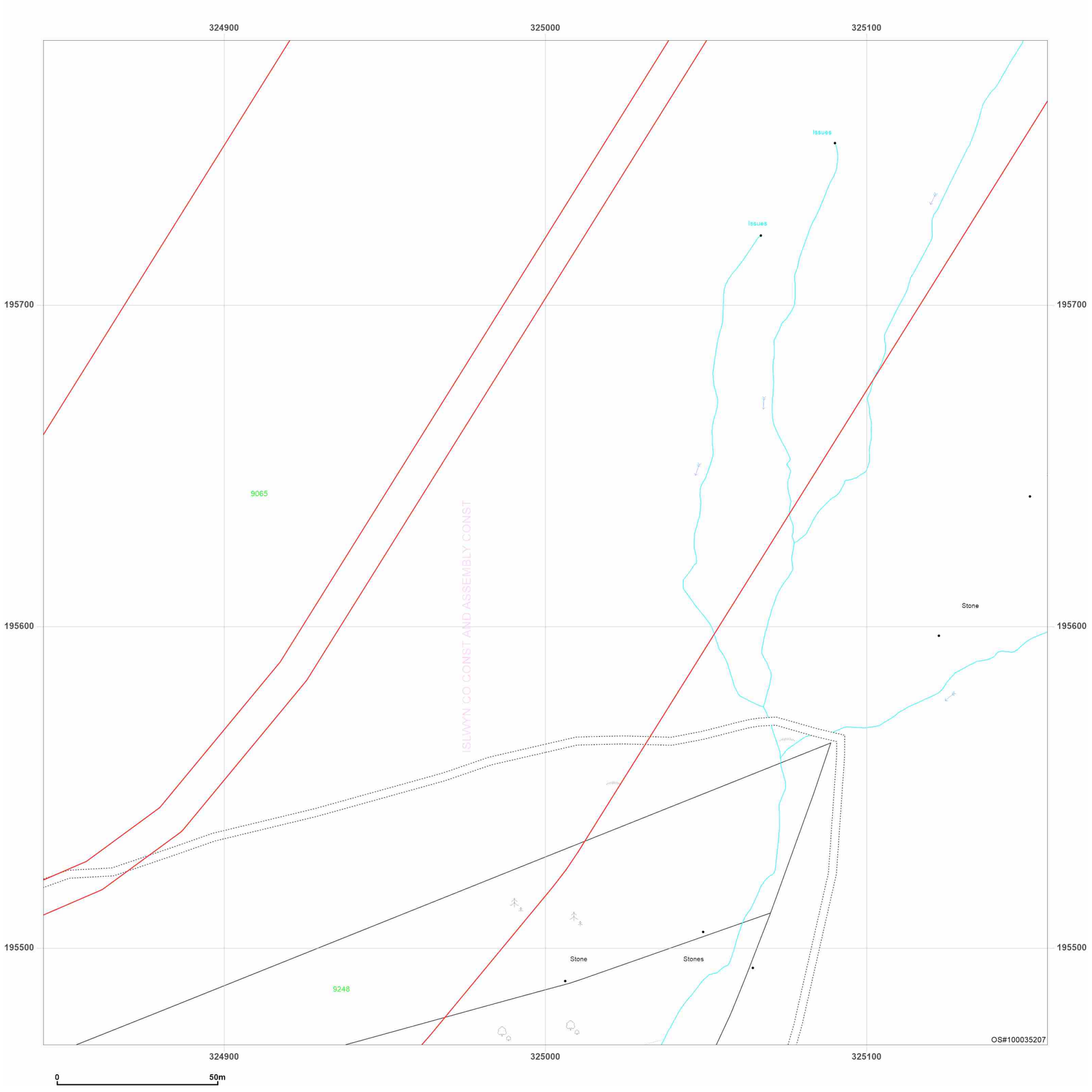
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Site Details:

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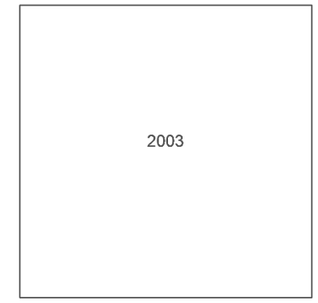
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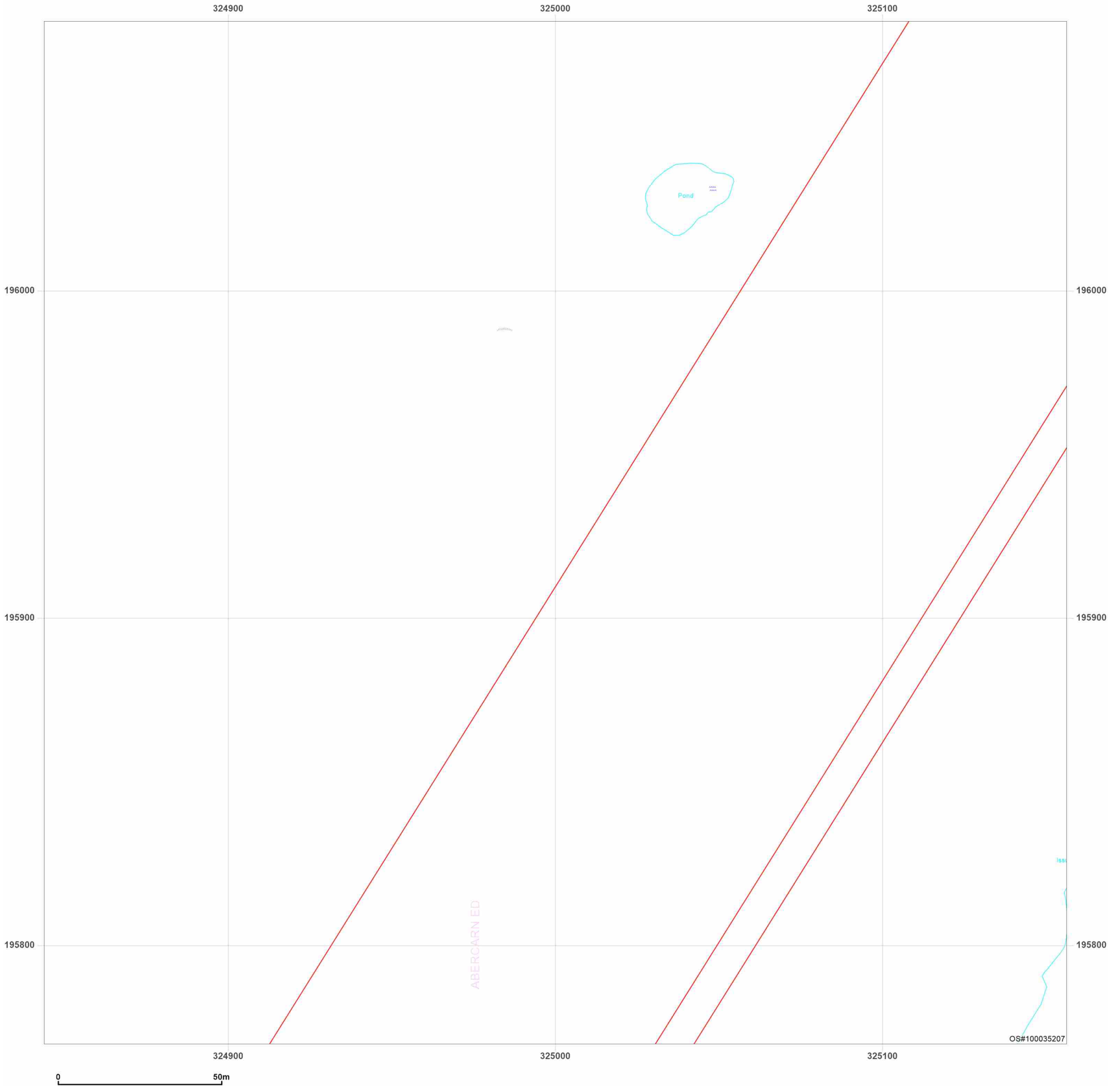
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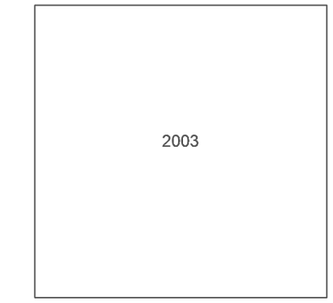
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Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_10_6
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Map Name: LandLine
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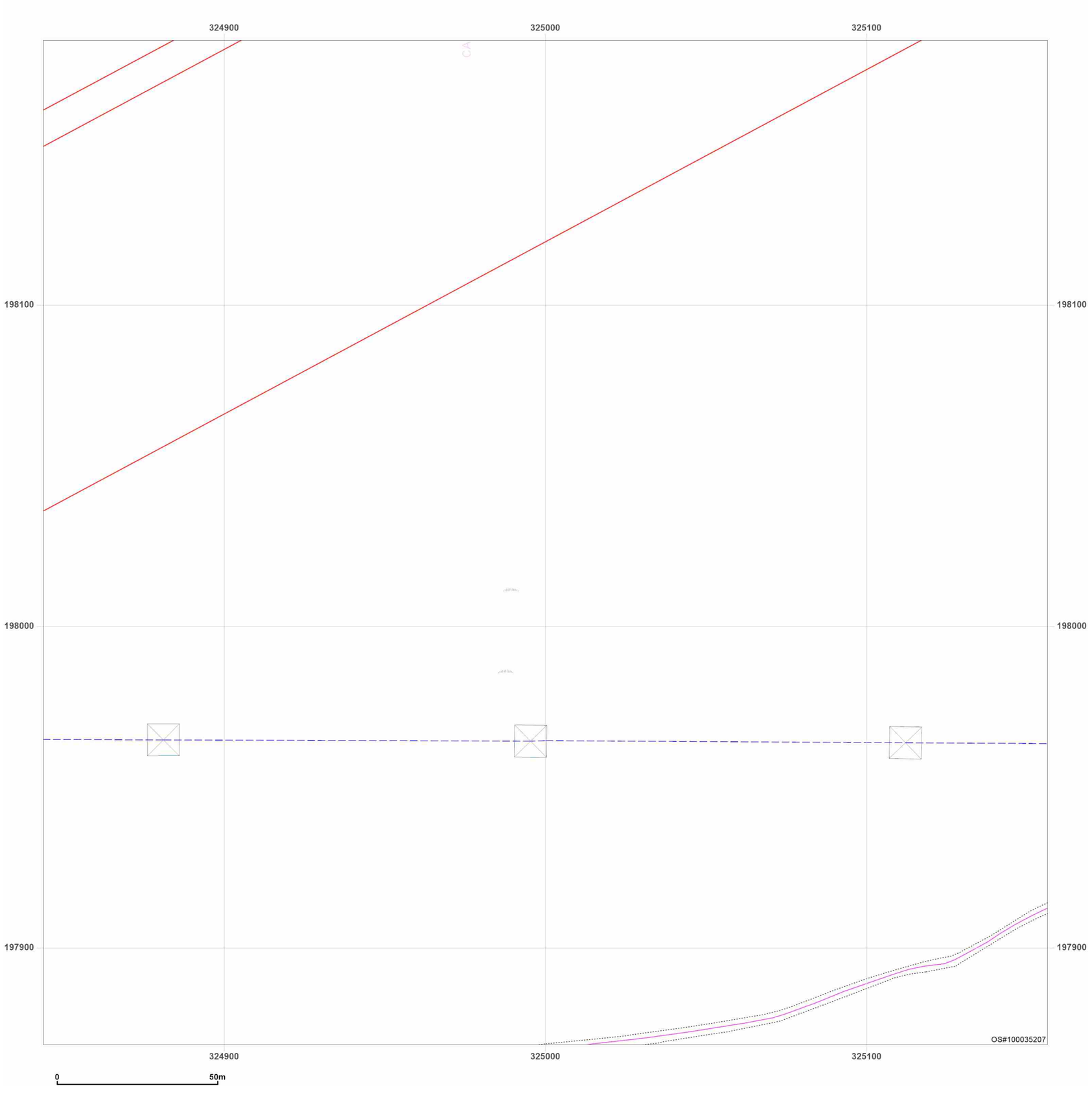
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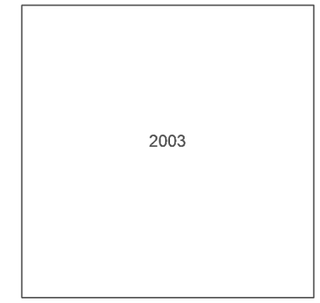
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Grid Ref: 325000, 198026

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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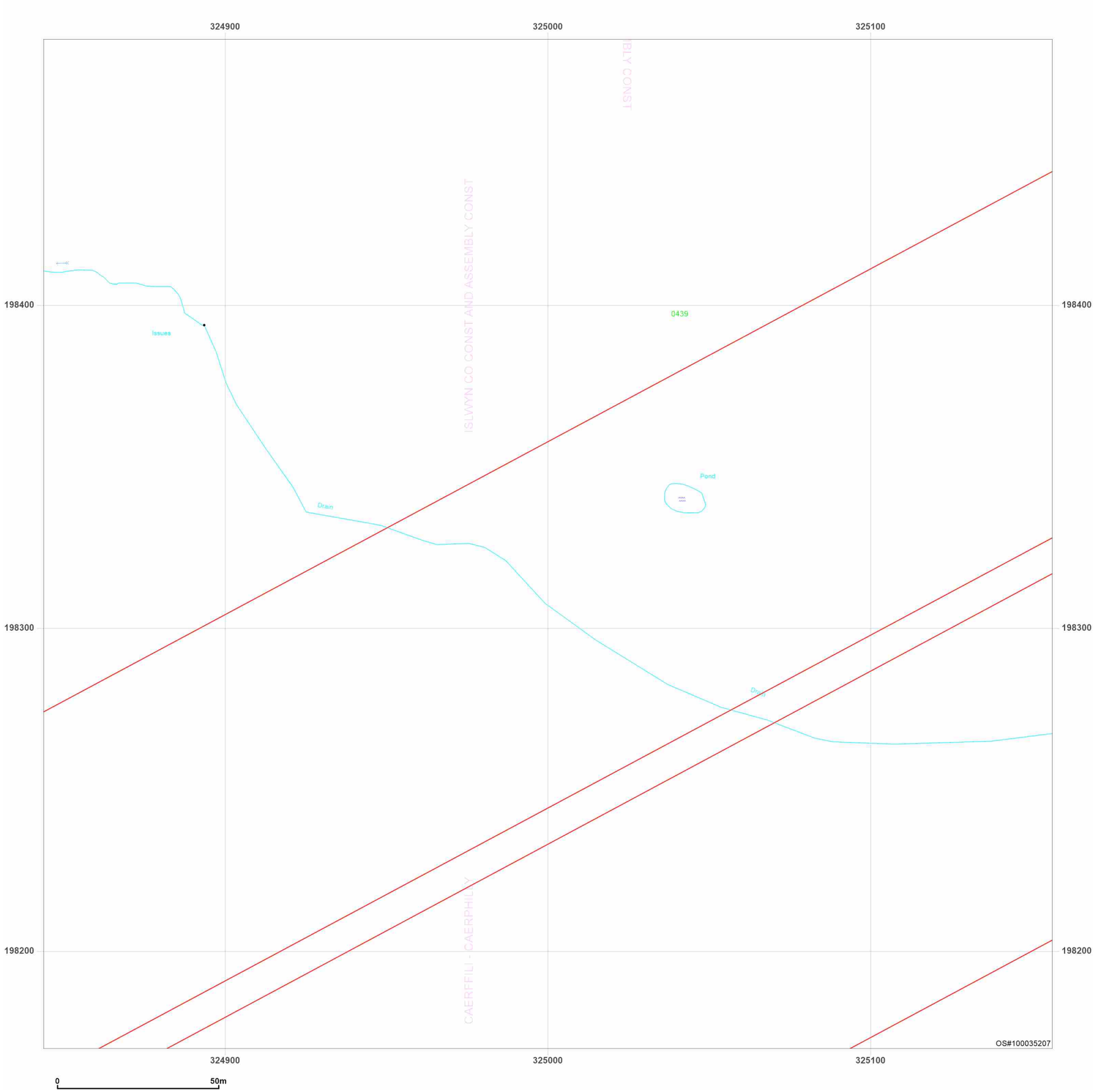
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_10_14
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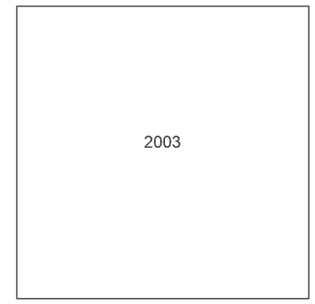
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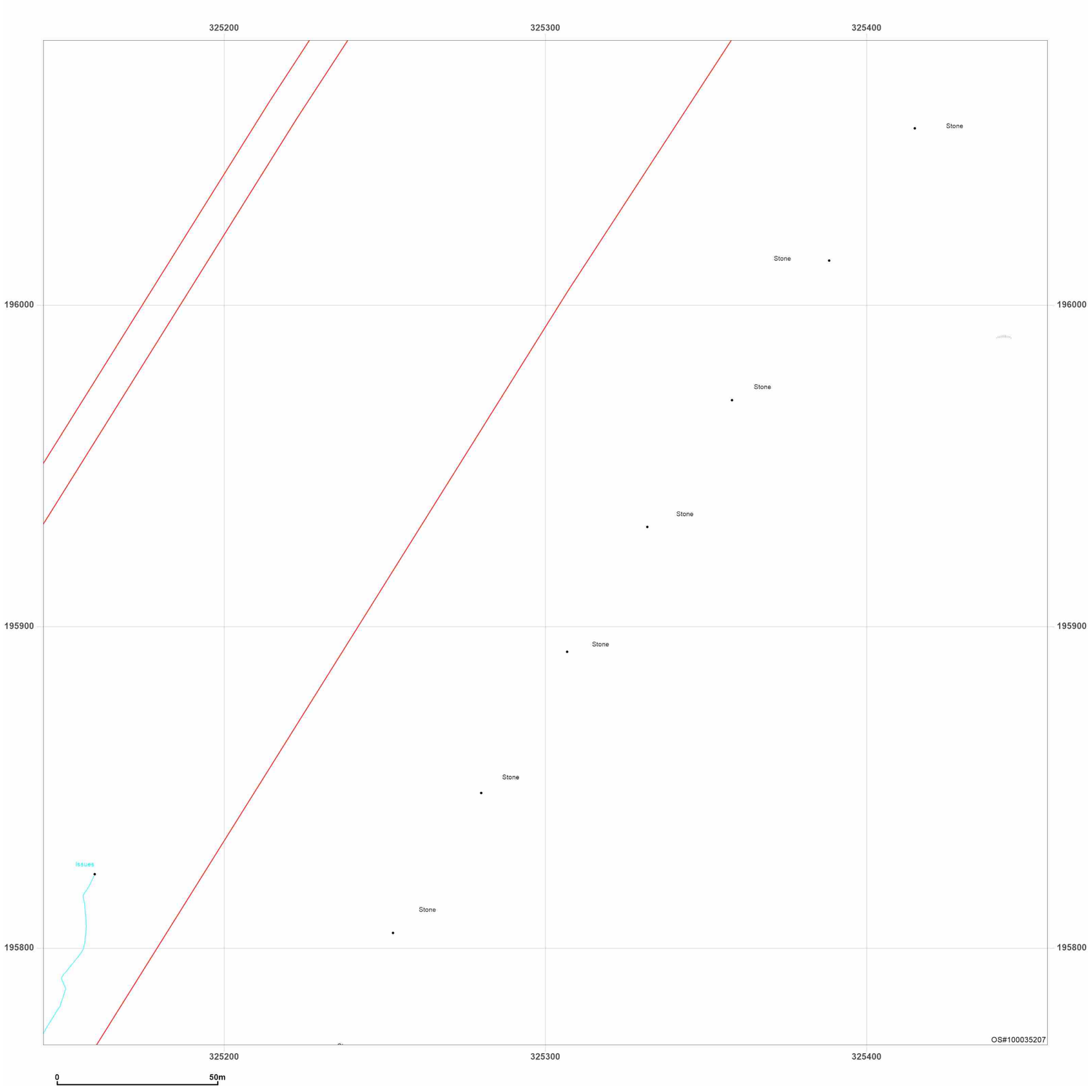
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_11_6
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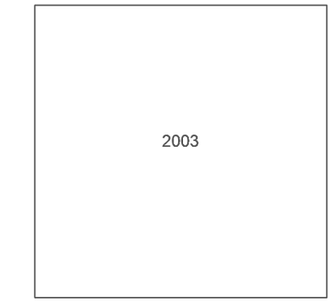
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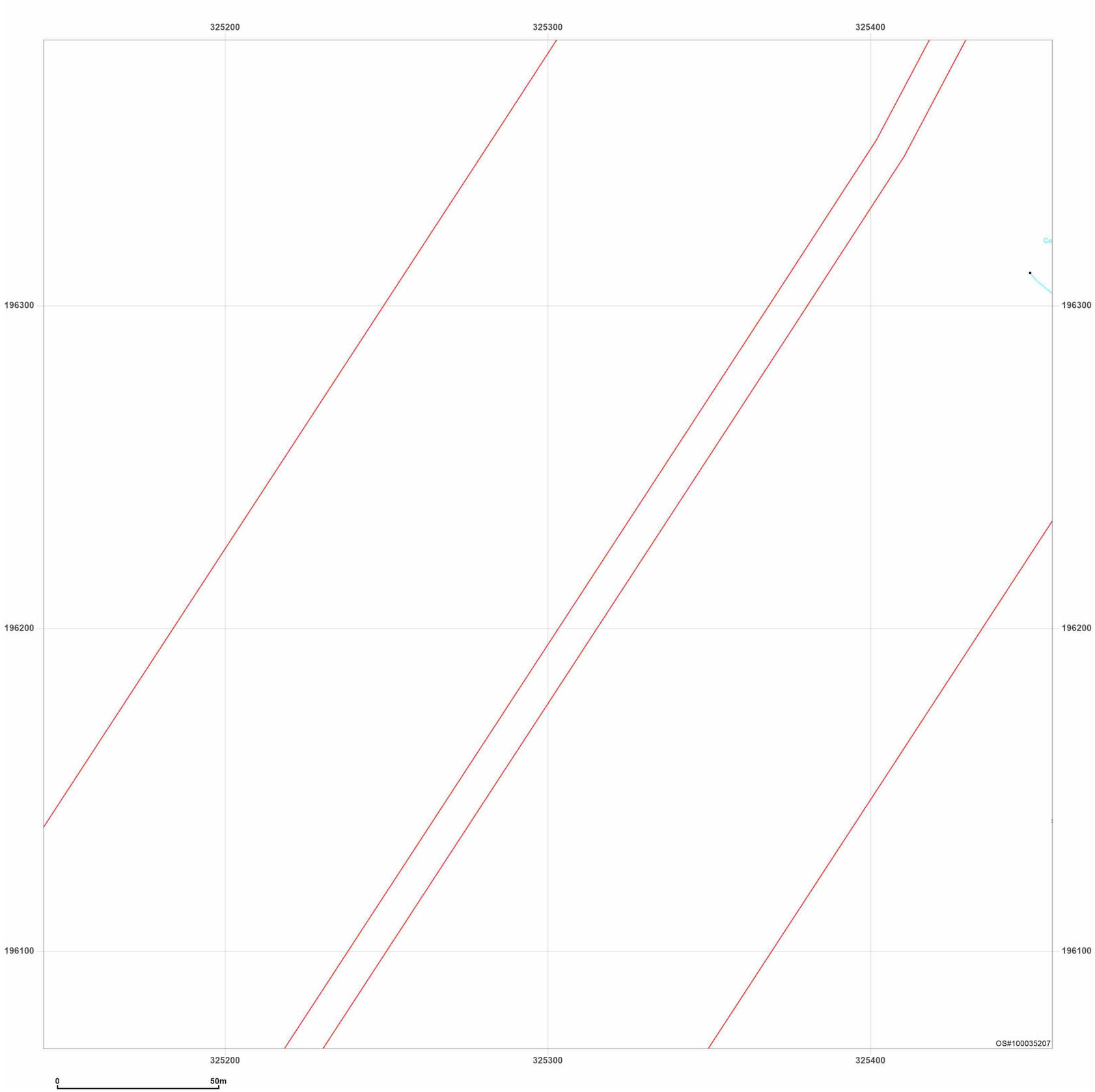
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_11_7
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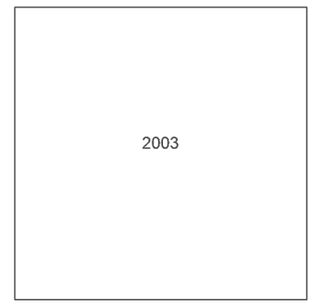
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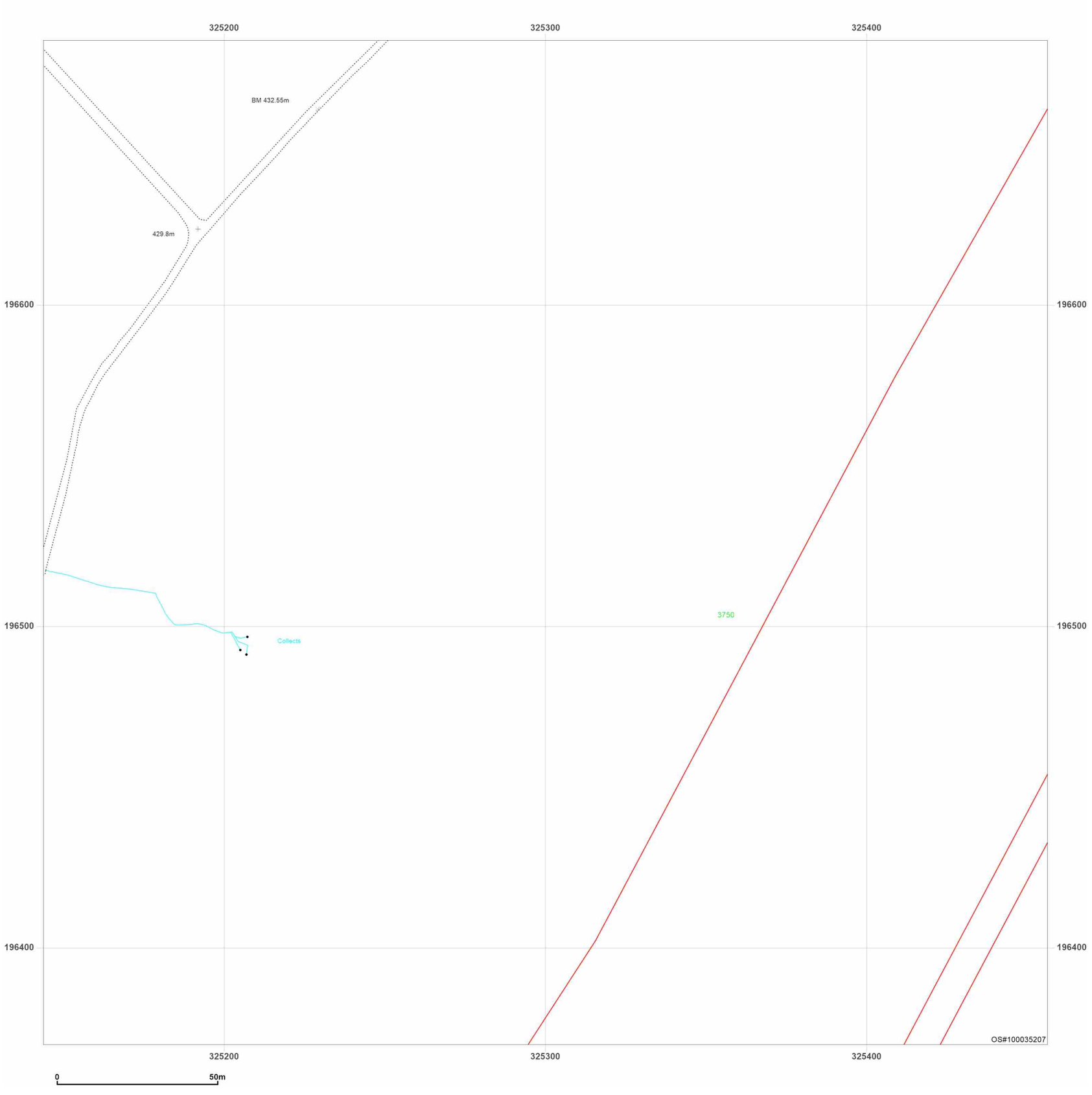
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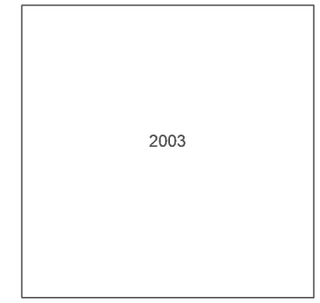
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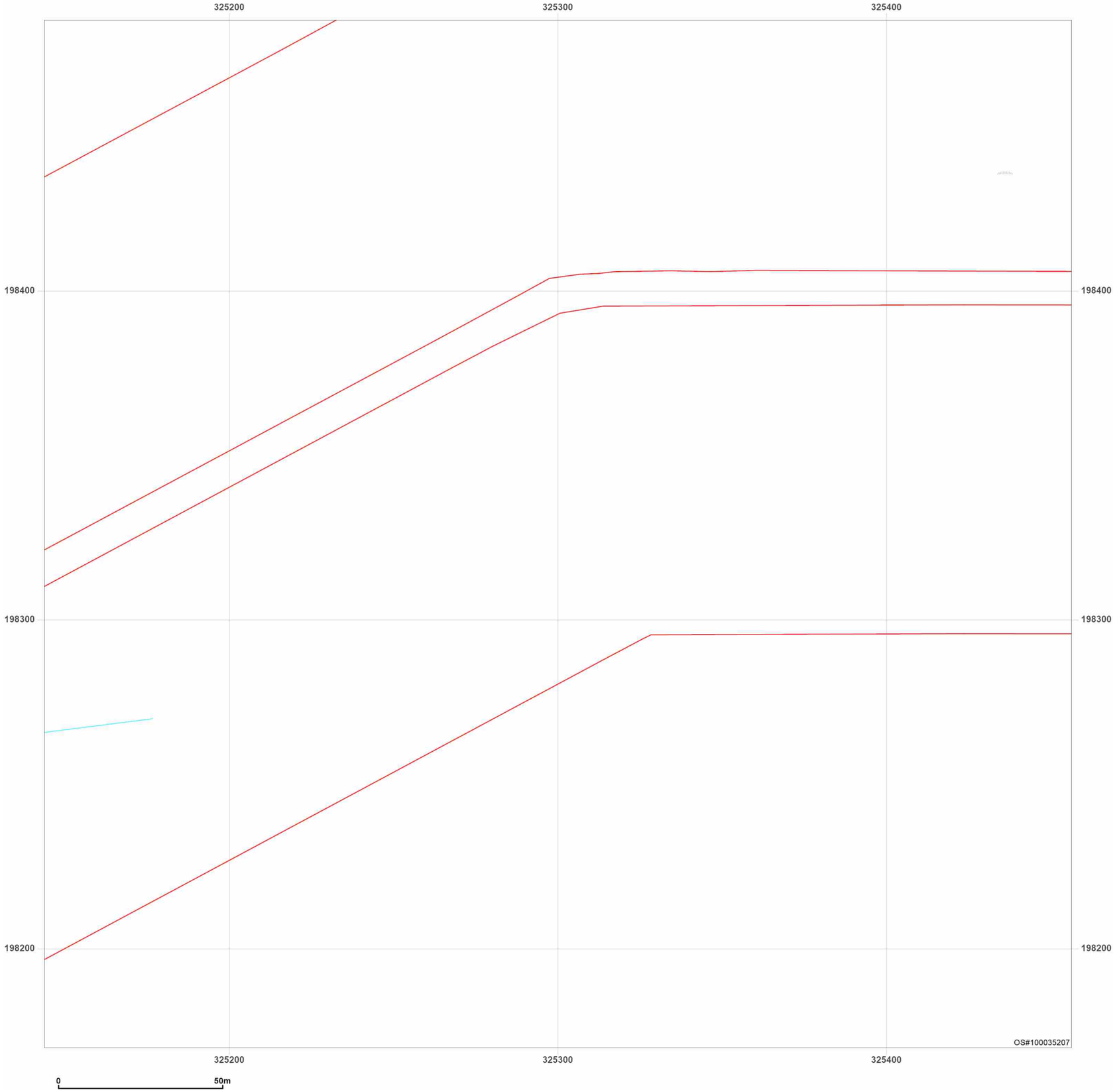
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_11_14
Grid Ref: 325300, 198326

Map Name: LandLine

Map date: **2003**

Scale: 1:1,250

Printed at: 1:1,250

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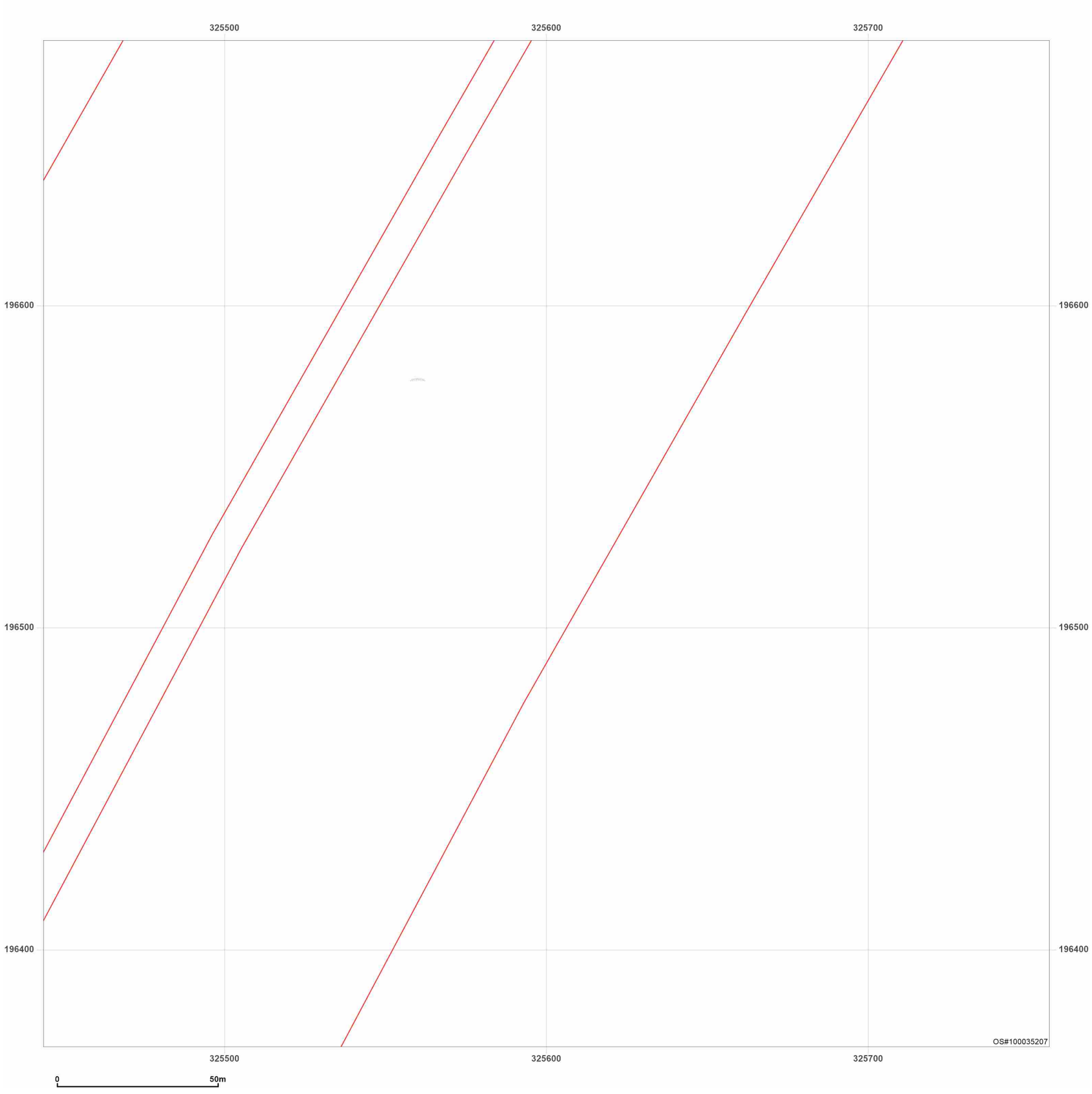
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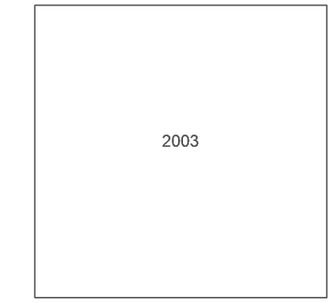
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Grid Ref: 325600, 196526

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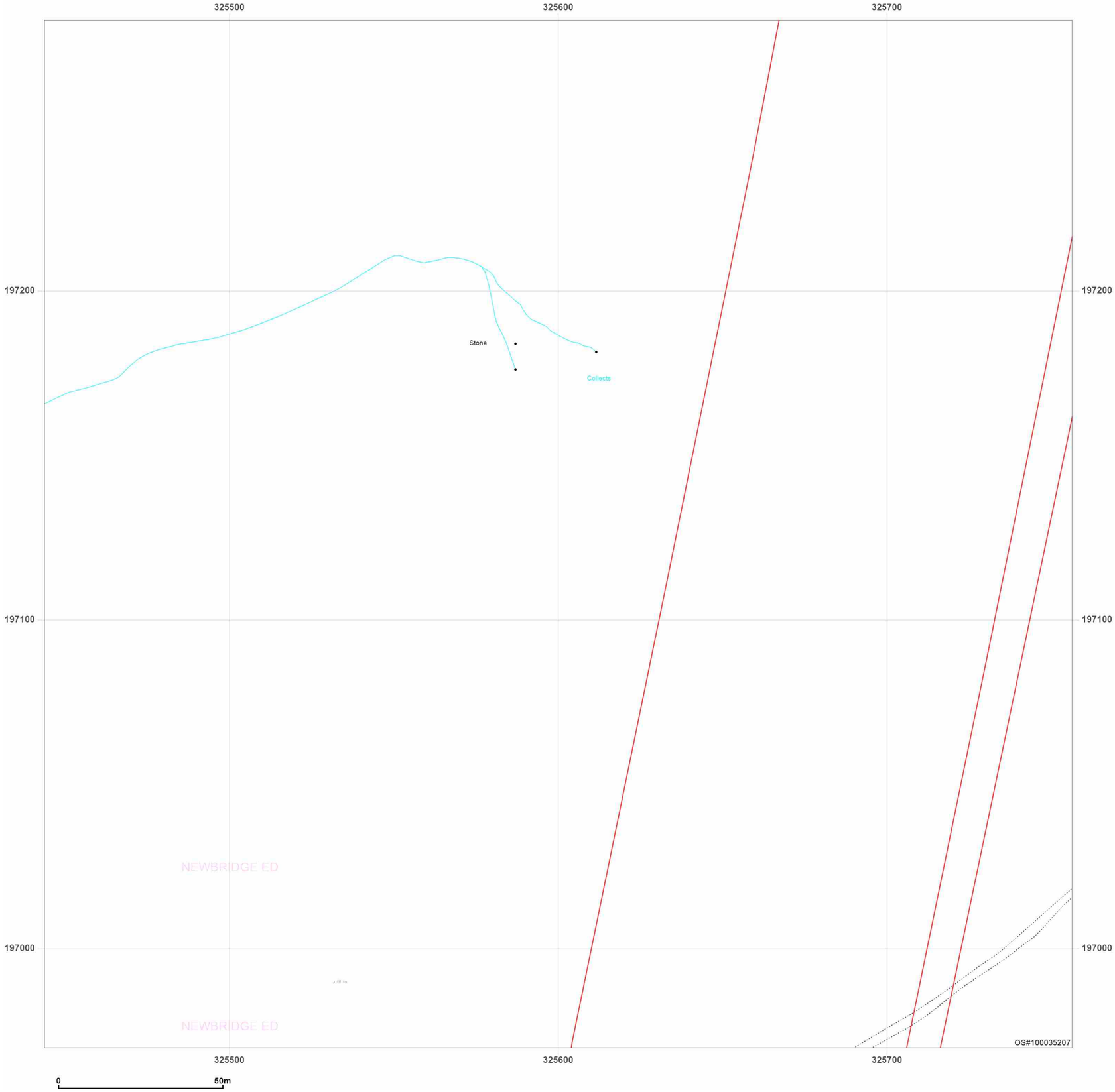
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_12_10
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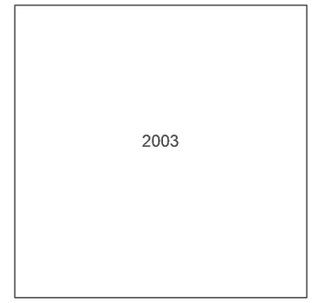
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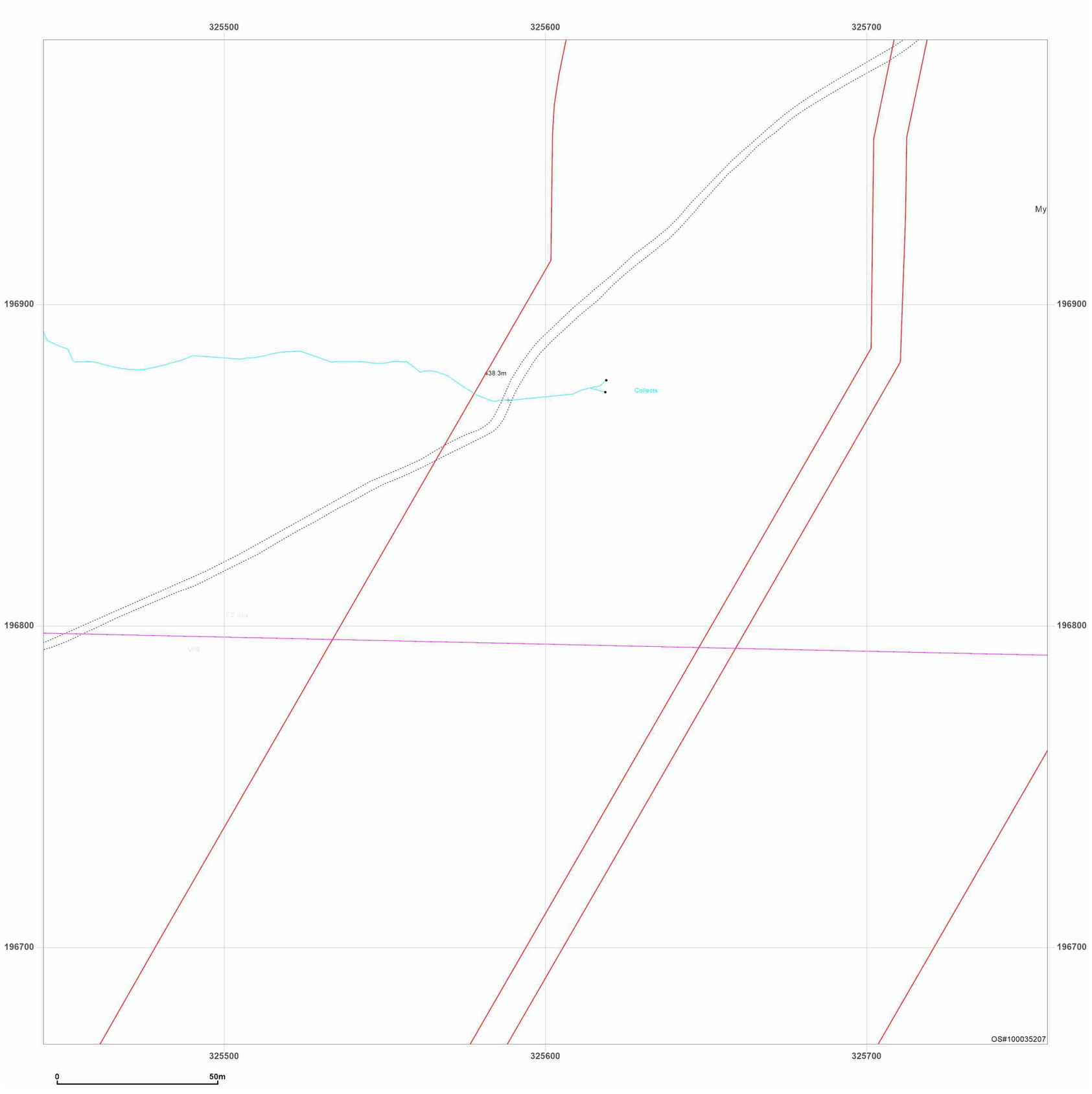
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_12_9
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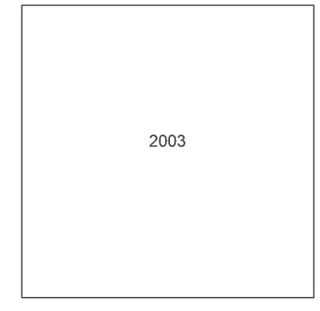
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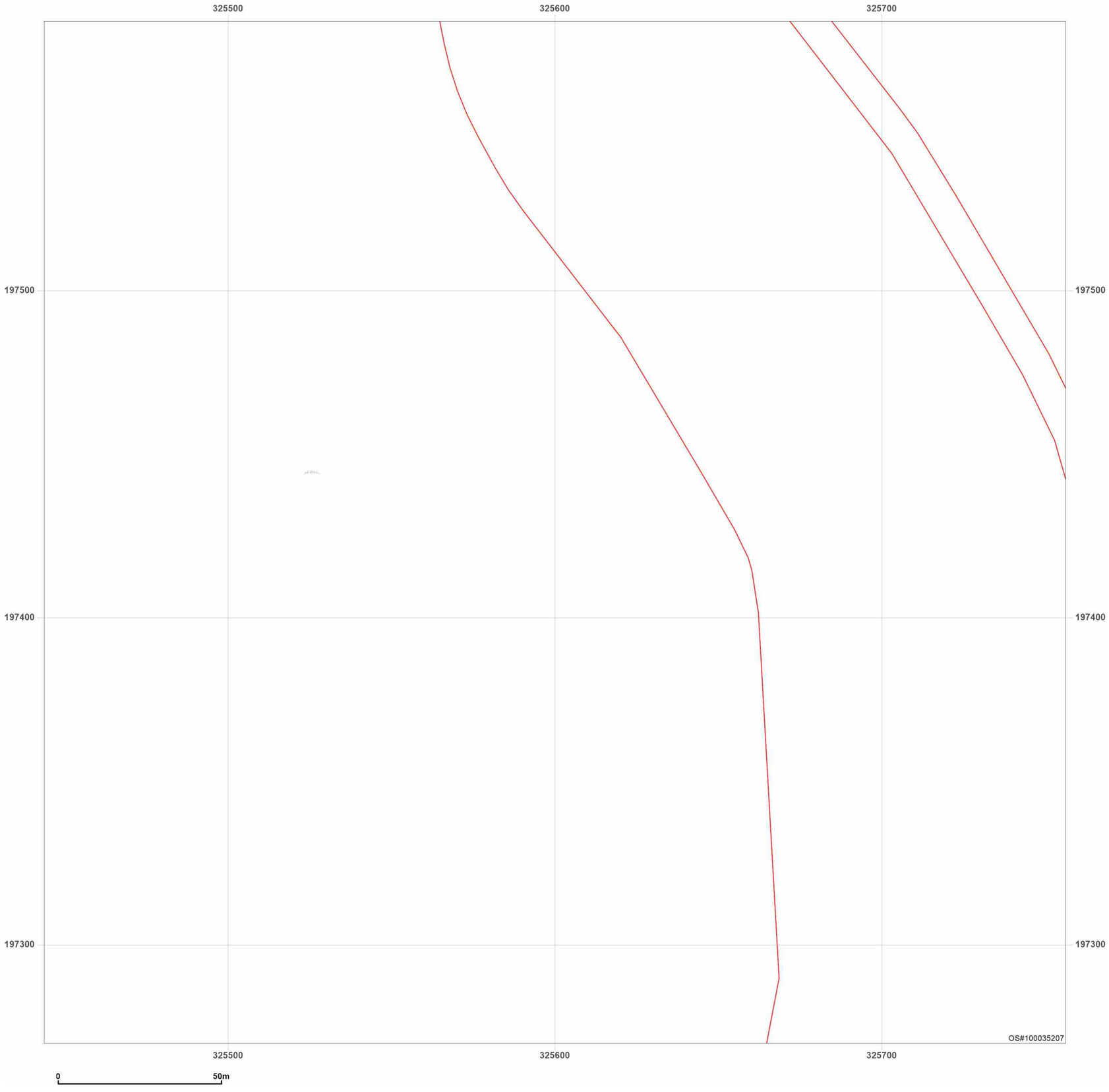
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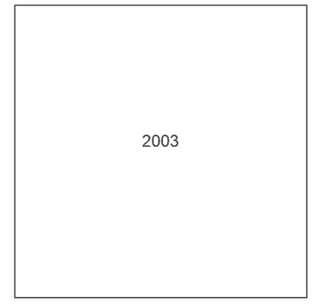
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Client Ref: Purchase Order P116682UK001
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Grid Ref: 325600, 197426

Map Name: LandLine
Map date: **2003**
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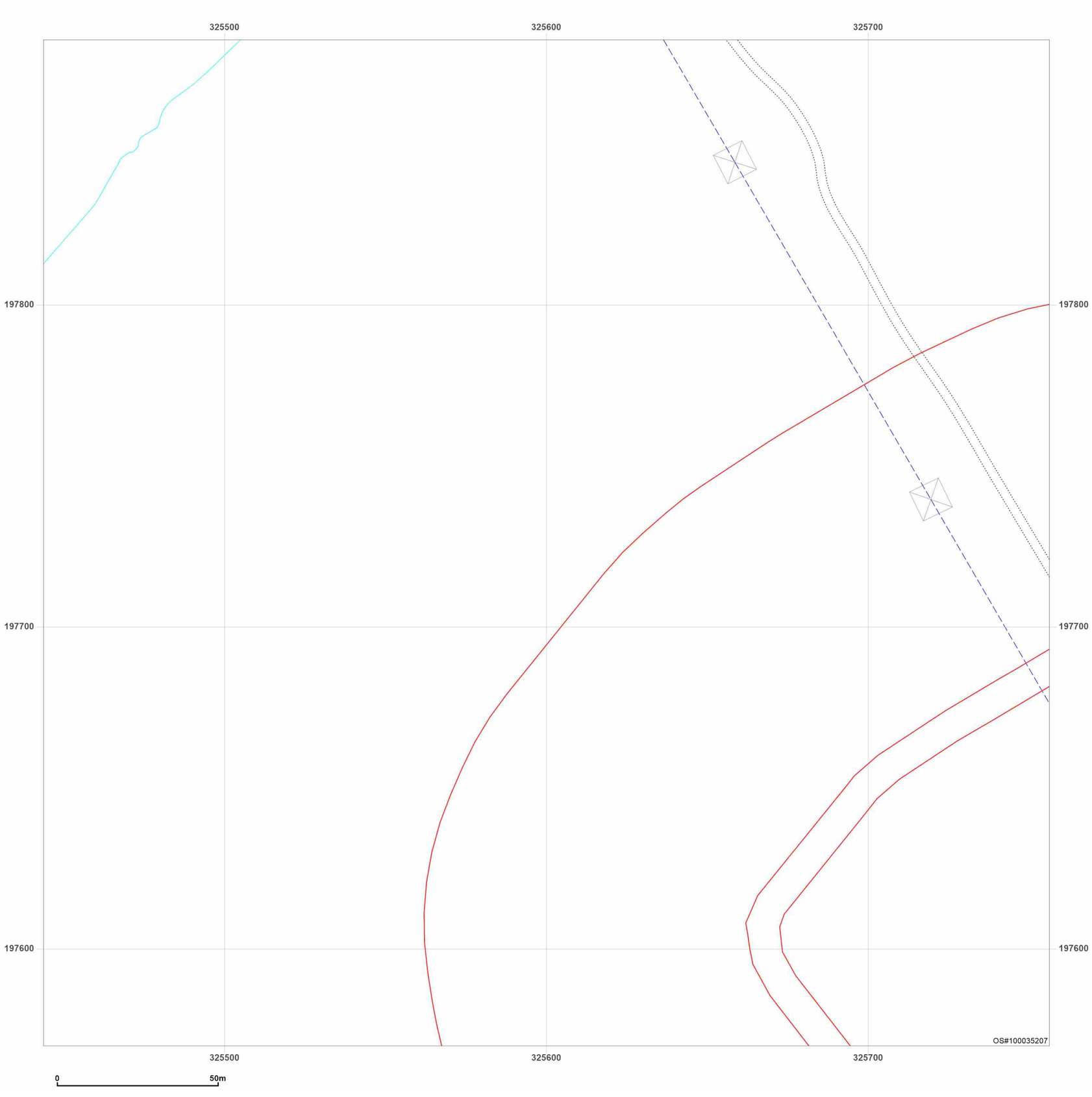
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Site Details:

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Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_12_12
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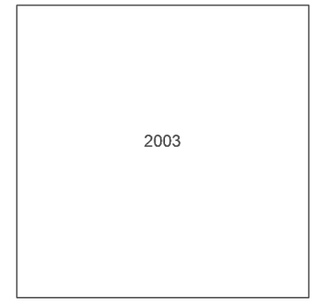
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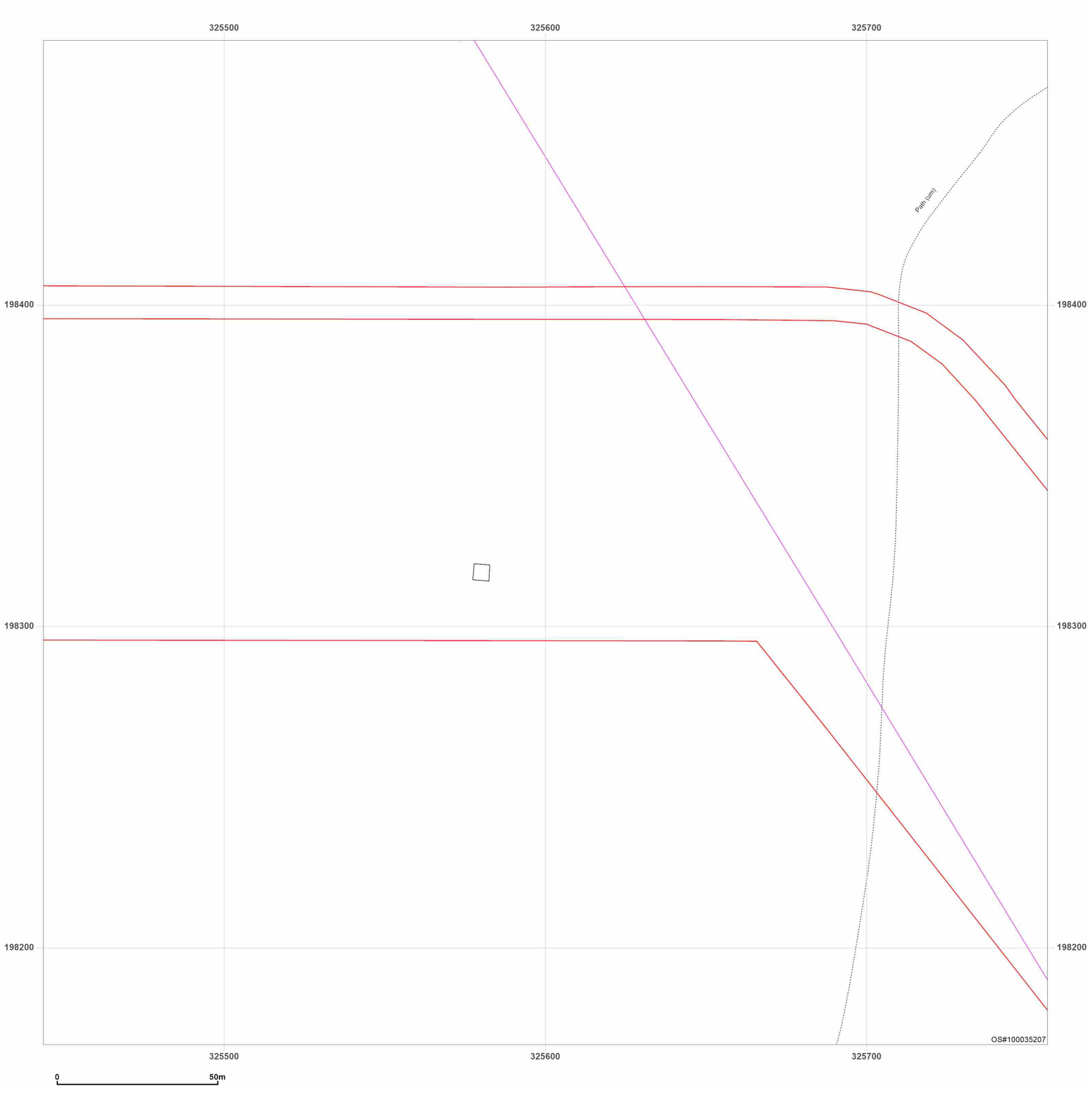
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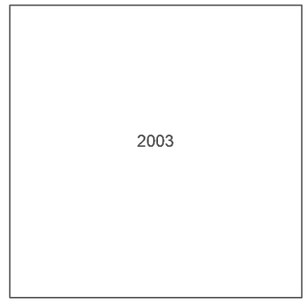
Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_12_14
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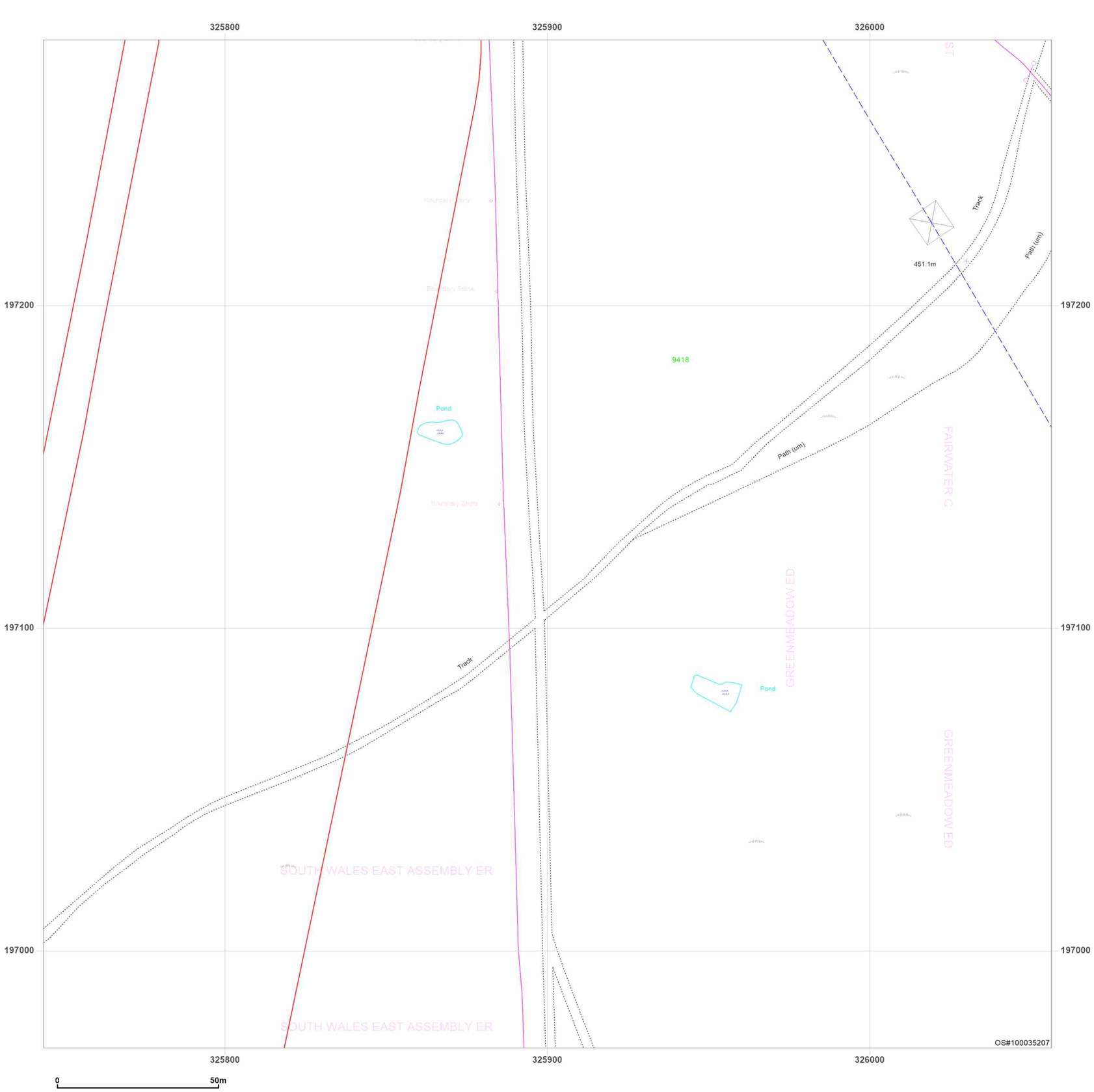
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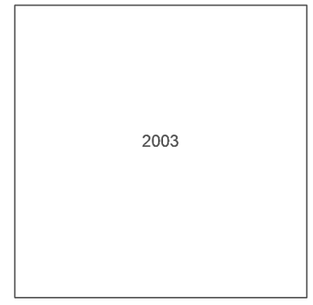
Site Details:

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Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_13_10
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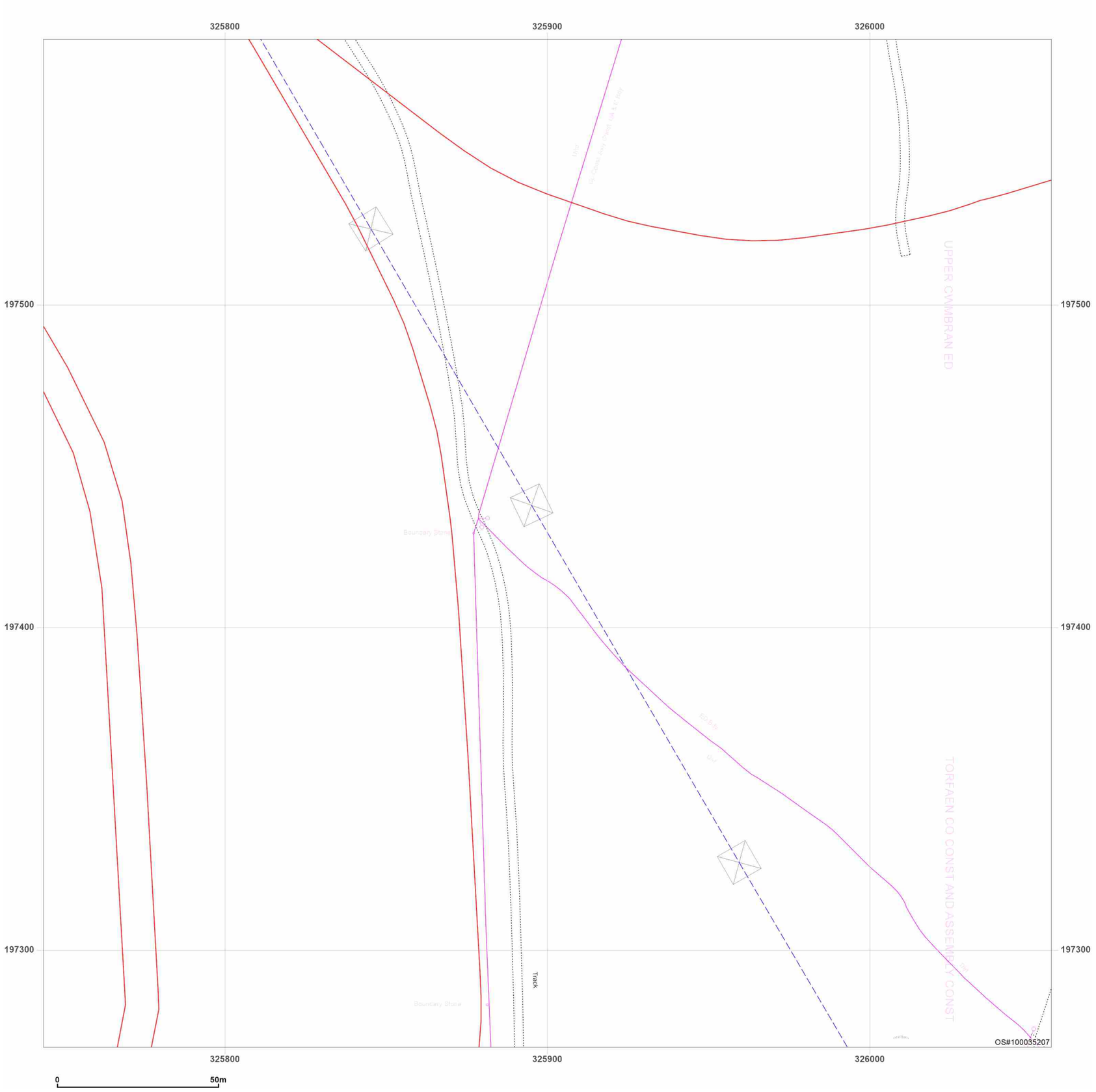
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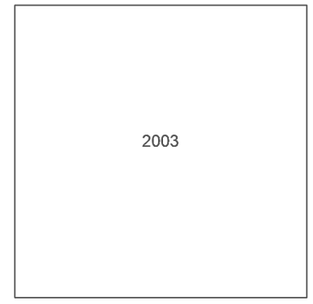
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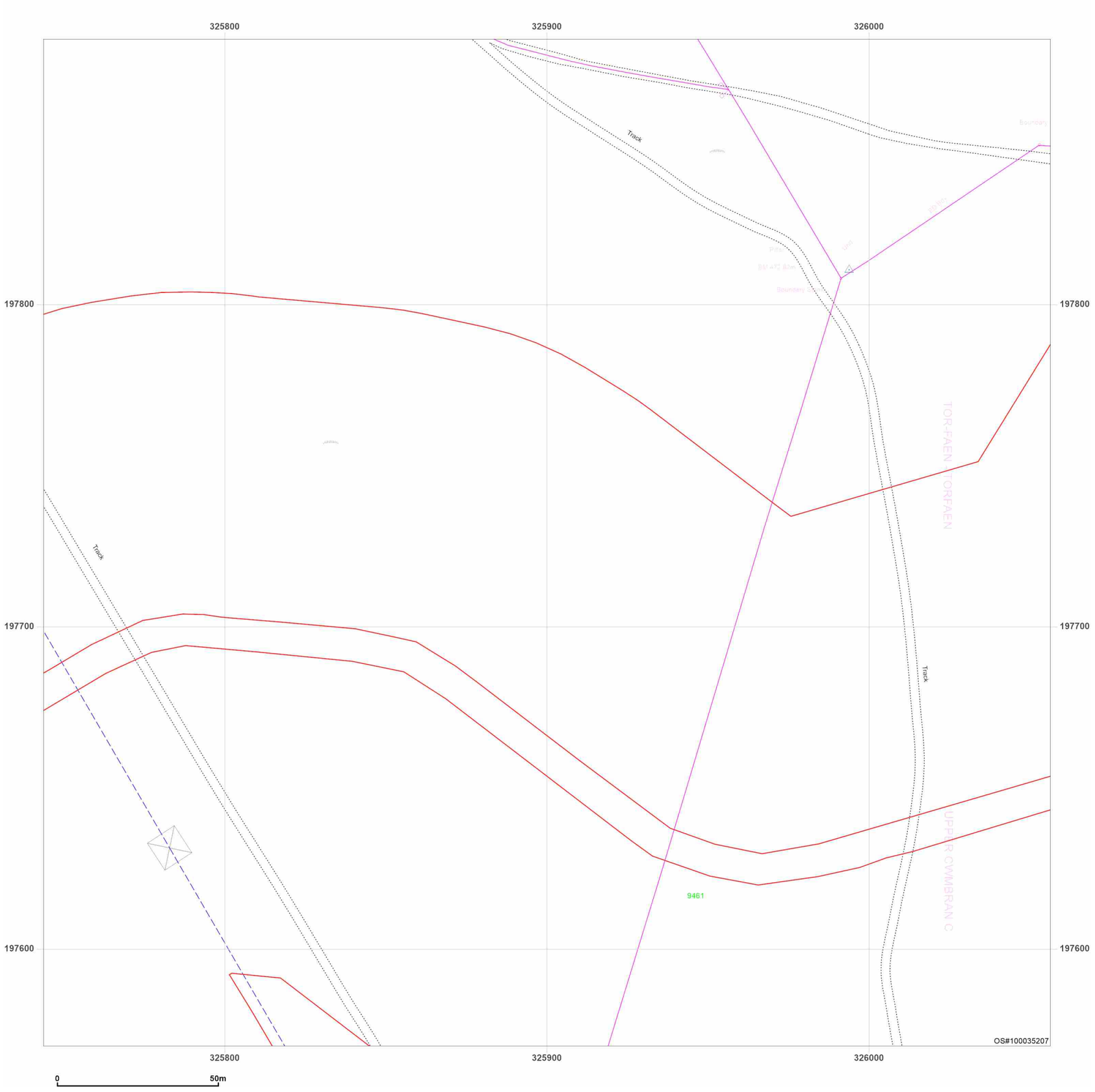
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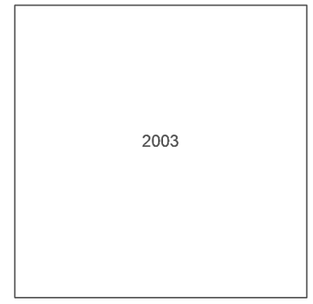
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Map date: **2003**
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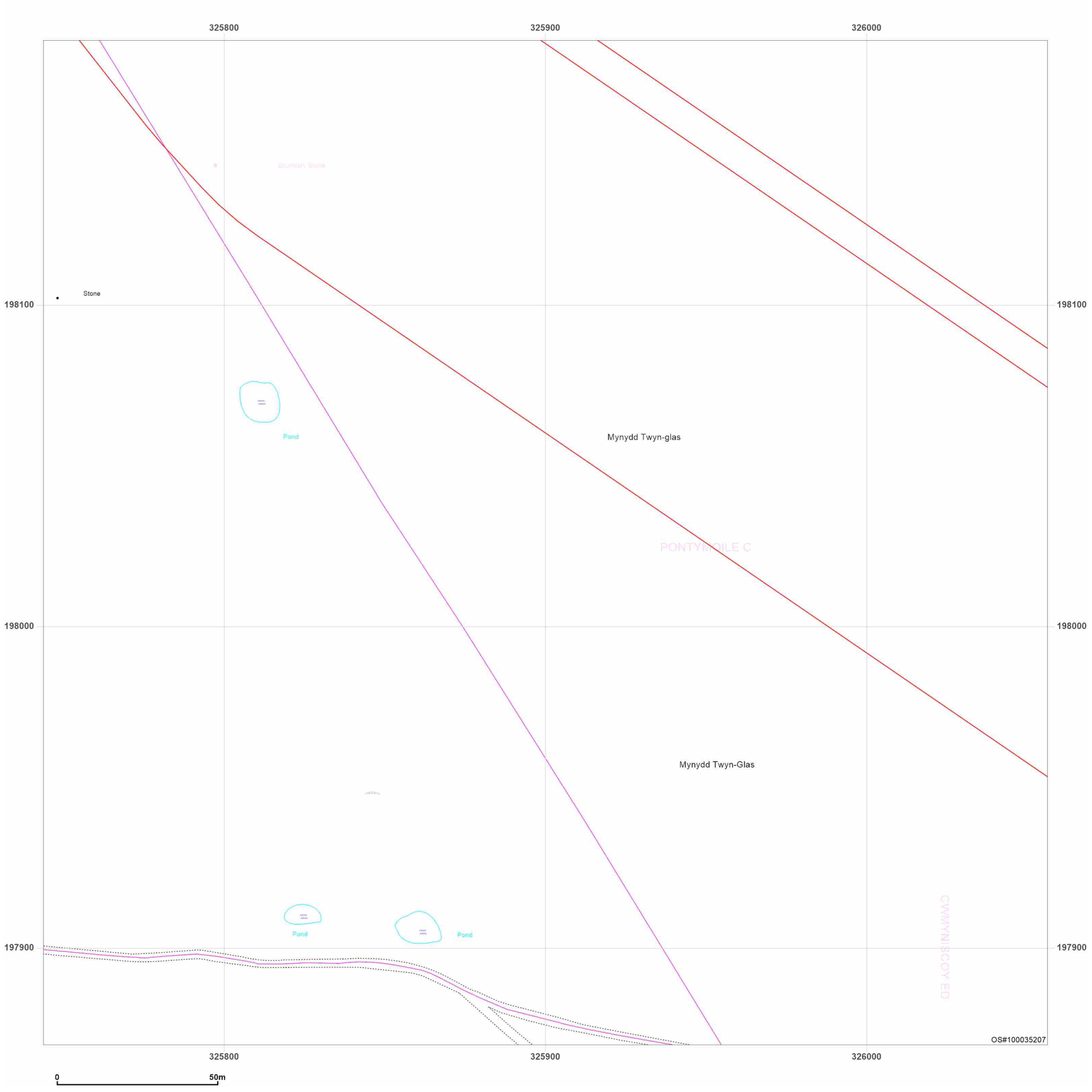
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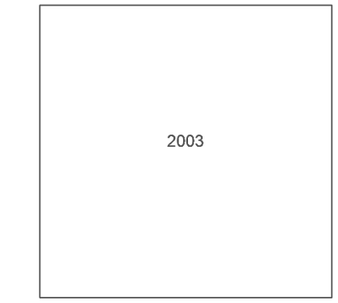
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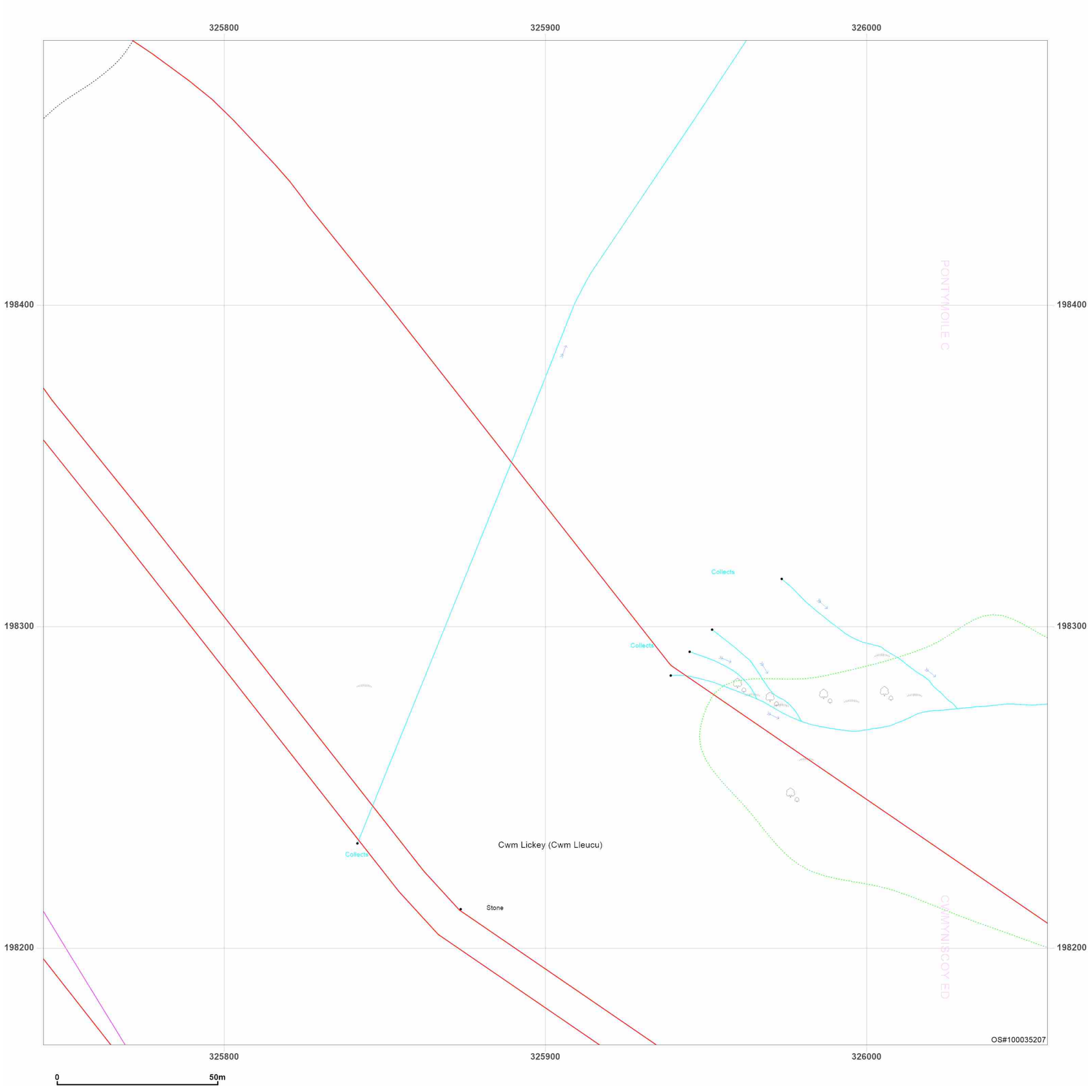
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Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_13_14
Grid Ref: 325900, 198326

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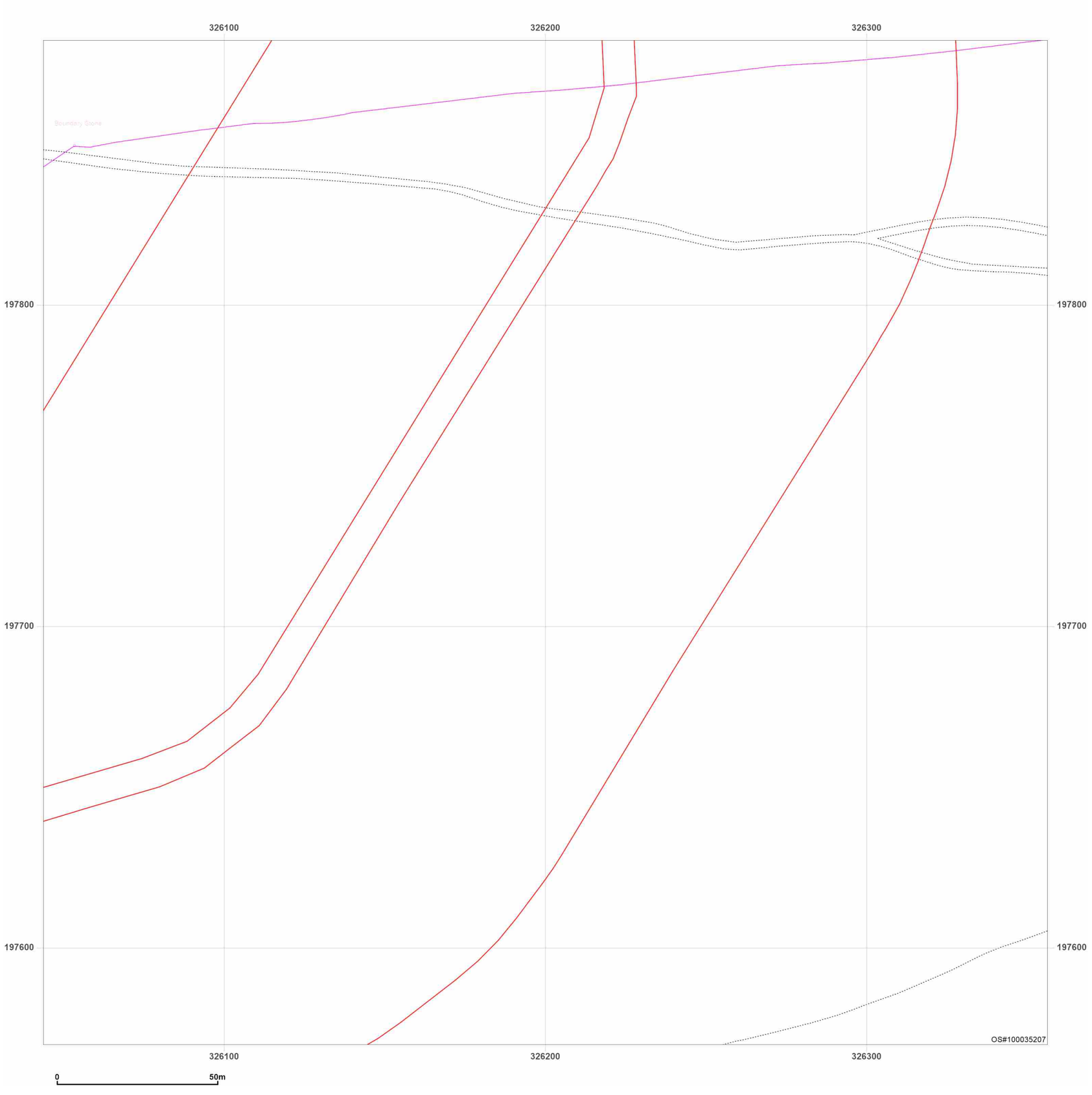
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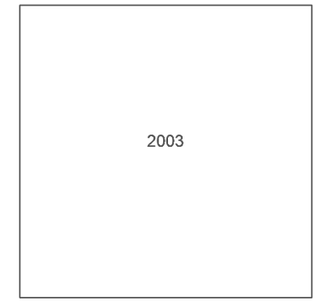
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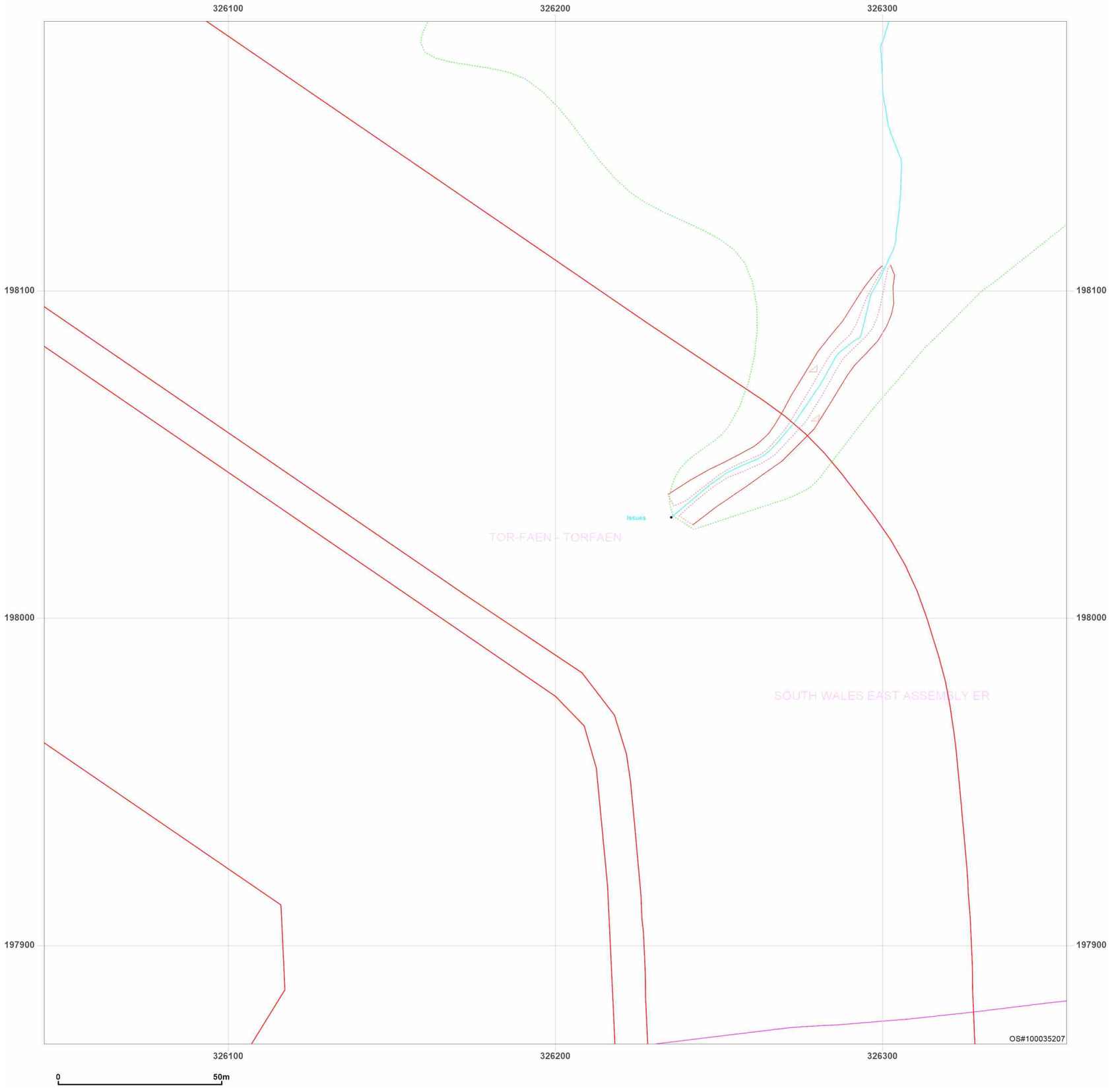
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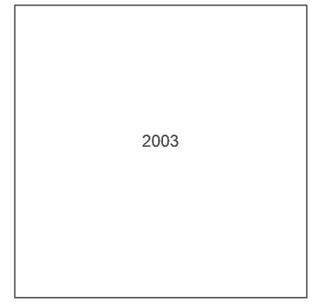
Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_Landline_14_13
Grid Ref: 326200, 198026

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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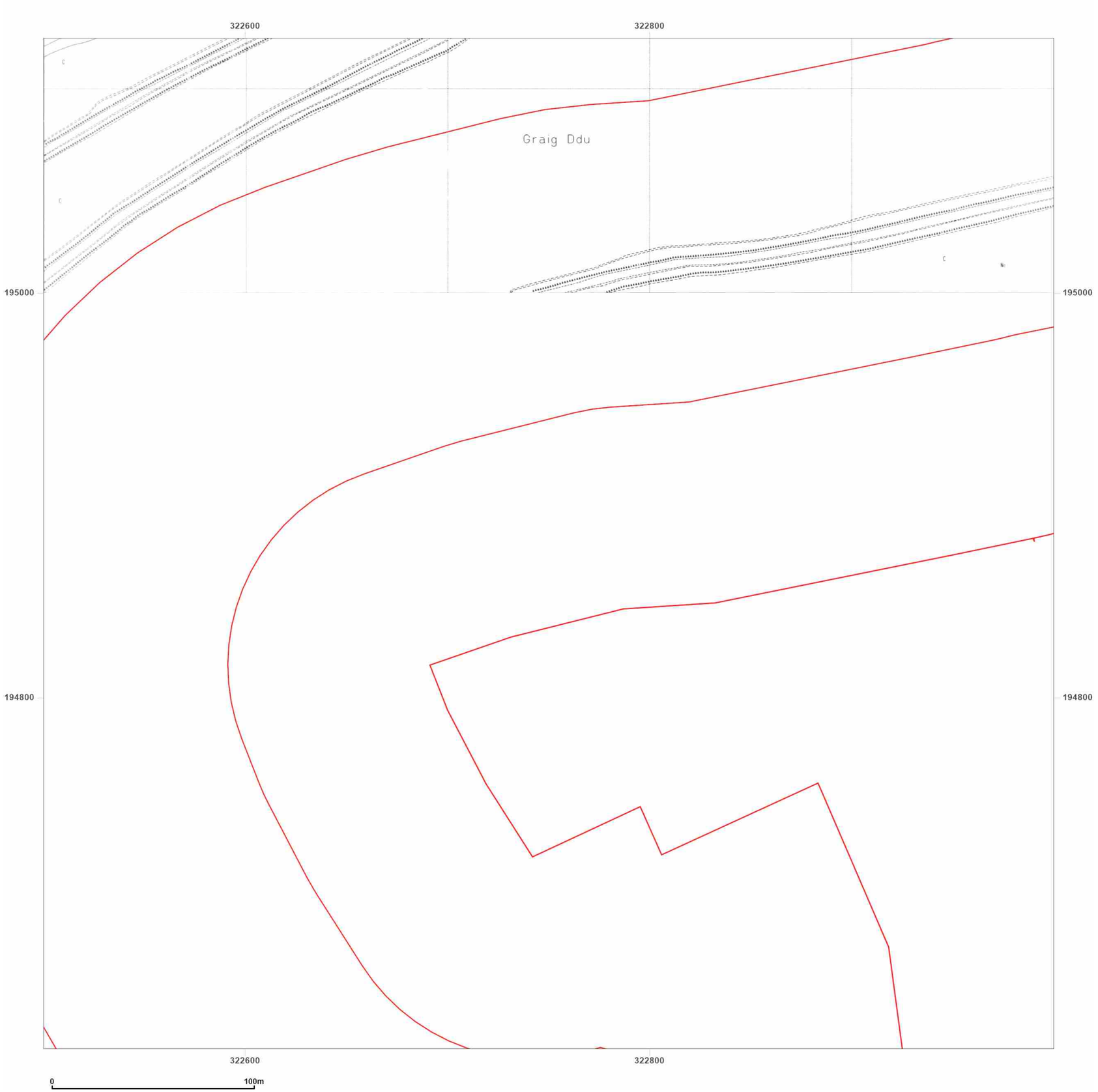
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_1250_2_2
Grid Ref: 322750, 194876

Map Name: National Grid

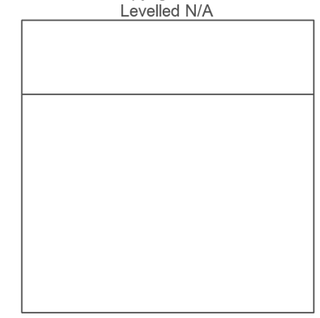
Map date: **1993**

Scale: 1:1,250

Printed at: 1:2,000

N
W E
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Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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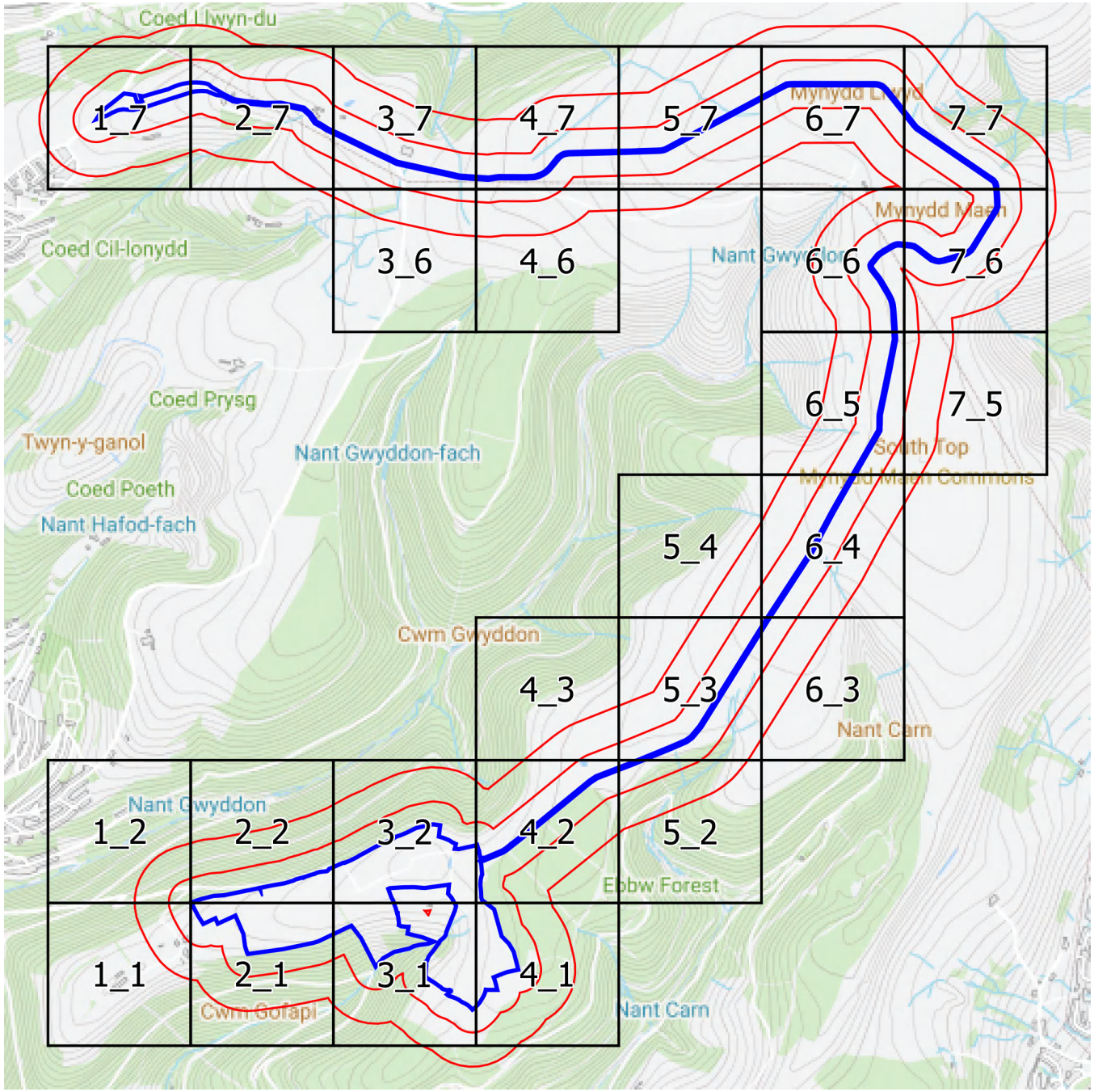
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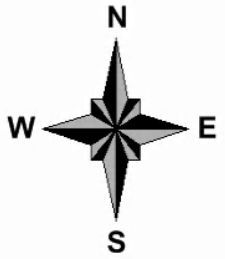
Production date: 12 September 2025

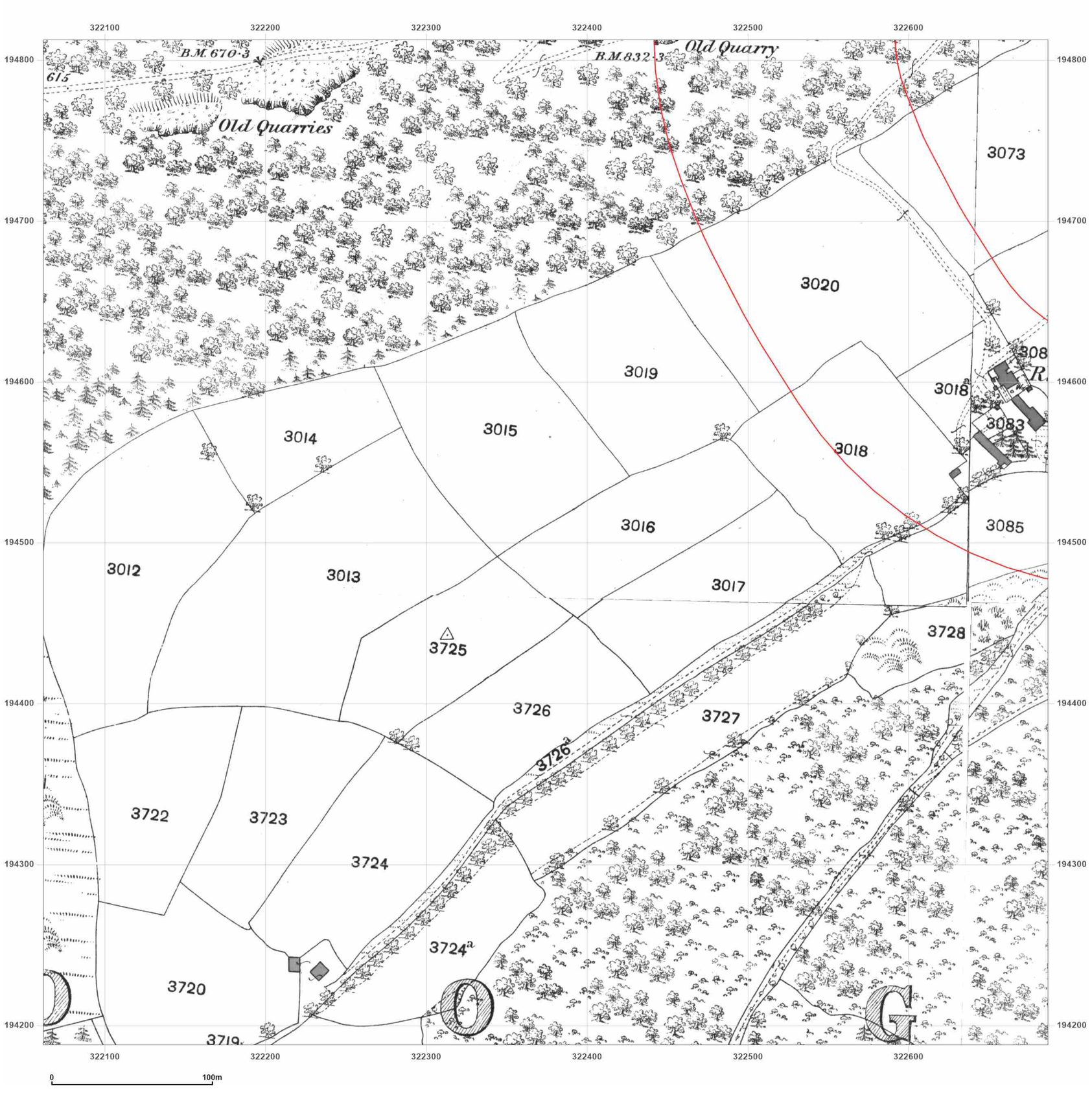
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Groundsure INSIGHTS

1:2,500 Scale Grid Index





wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_1
Grid Ref: 322374, 194500

Map Name: County Series

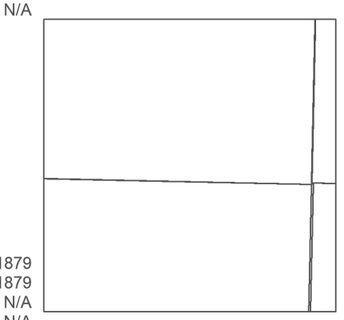
Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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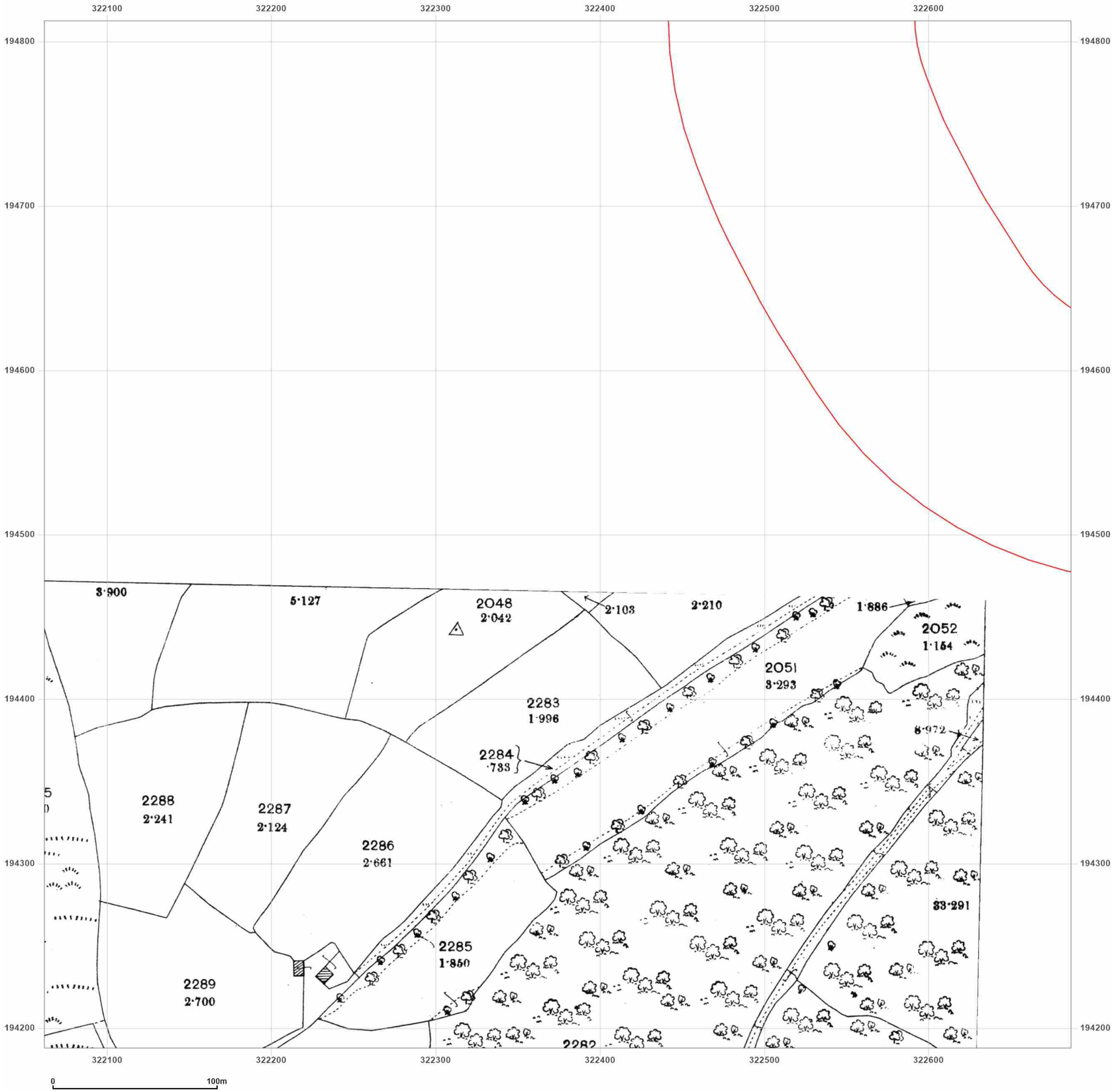
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_1
Grid Ref: 322374, 194500

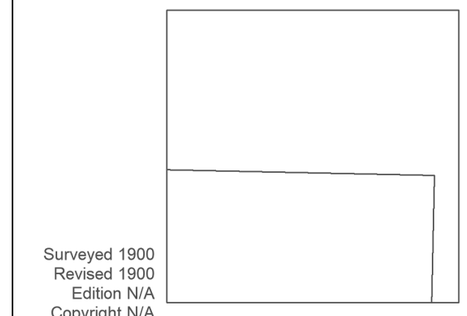
Map Name: County Series

Map date: **1900**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Surveyed 1900
Revised 1900
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

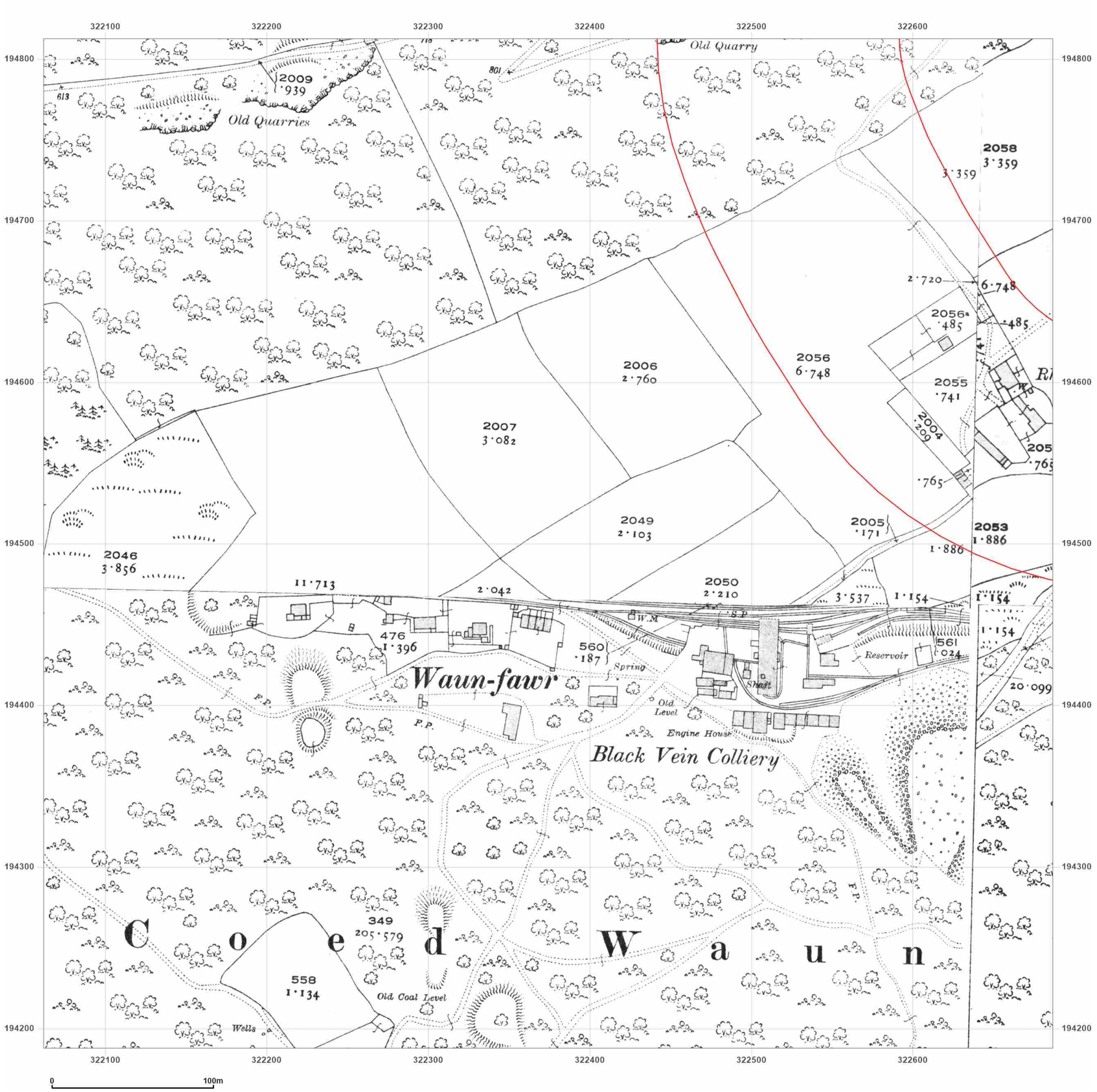
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_1
Grid Ref: 322374, 194500

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

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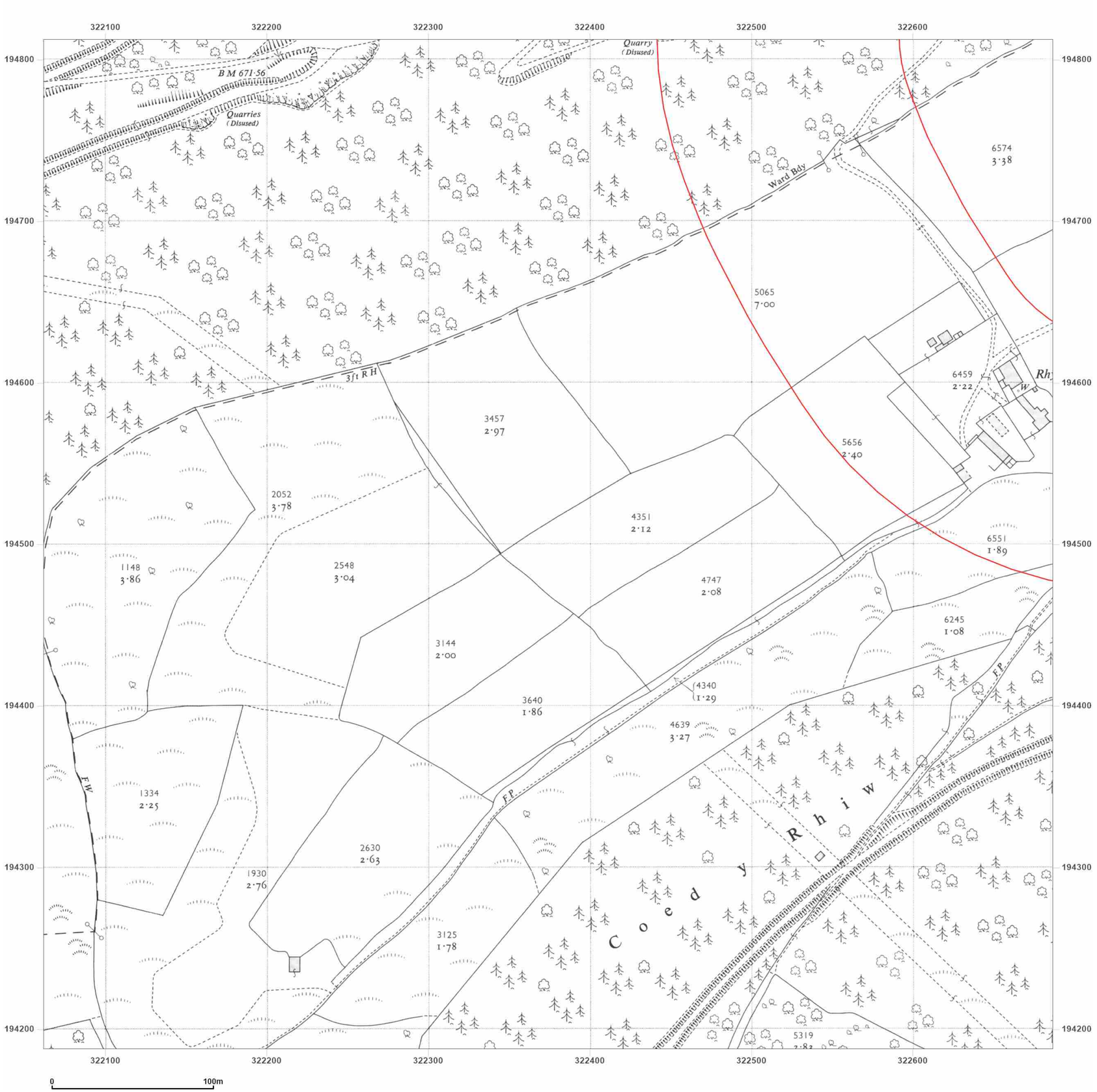
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_1
Grid Ref: 322374, 194500

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

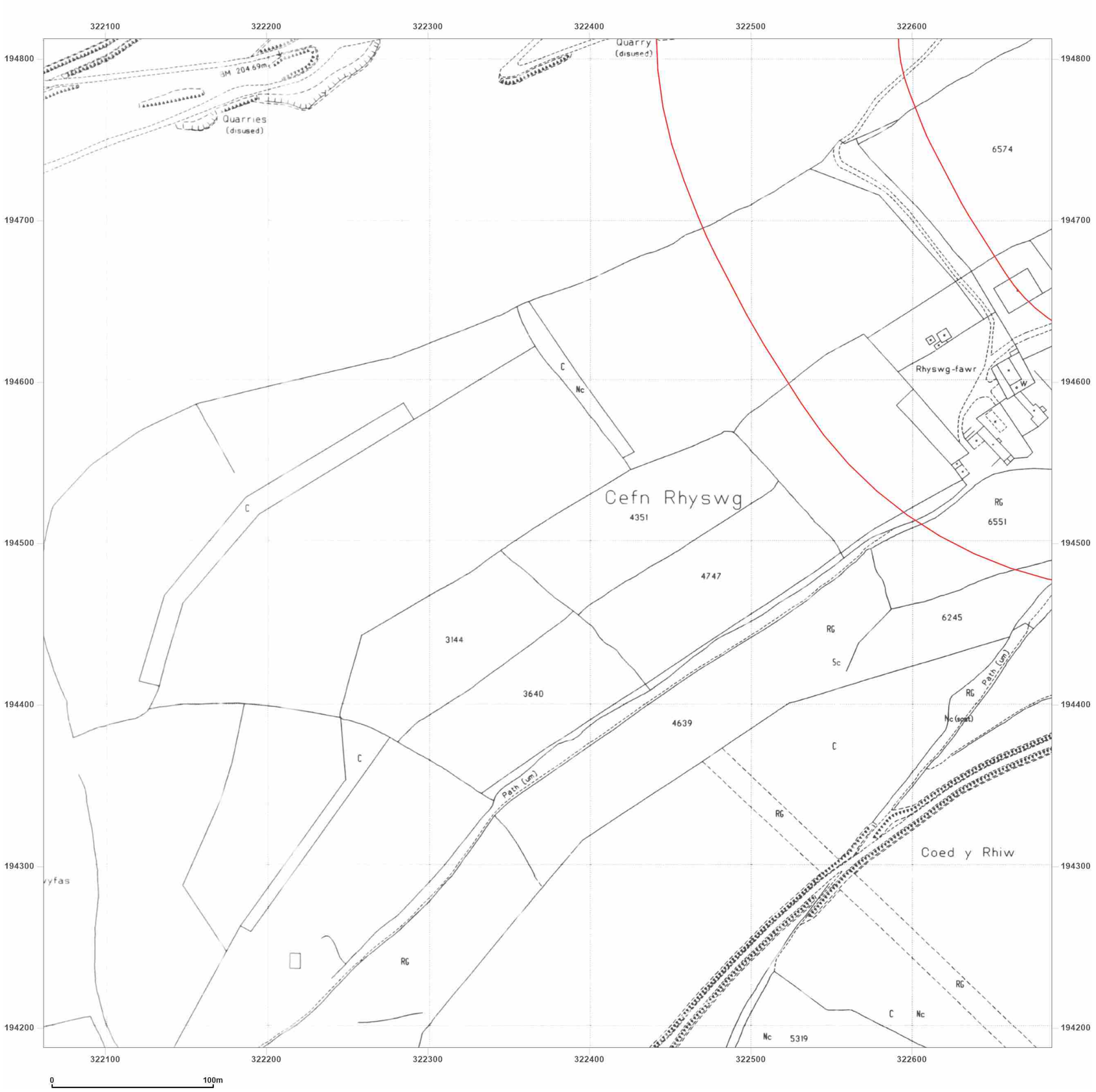
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_1
Grid Ref: 322374, 194500

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

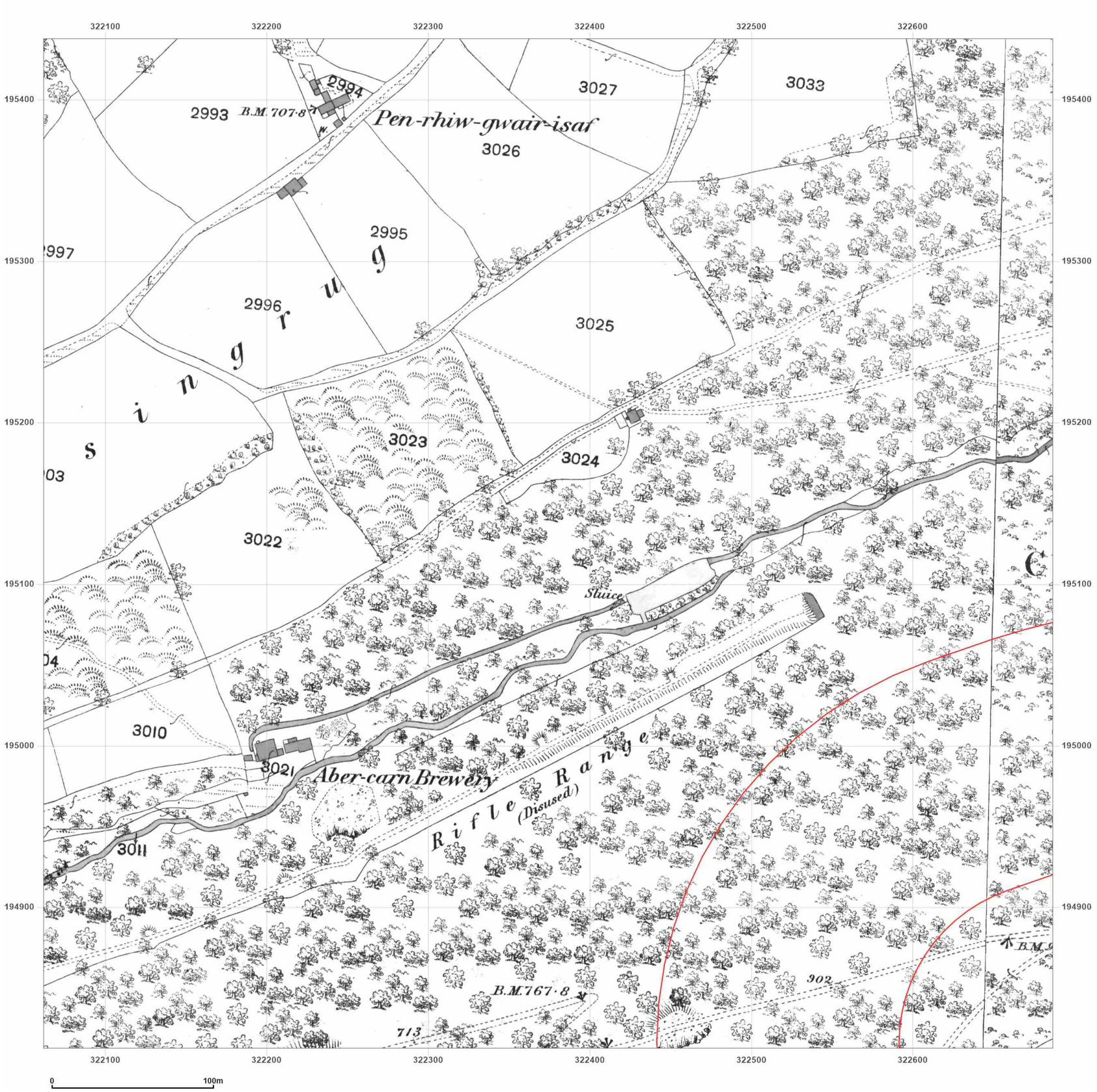
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_2
Grid Ref: 322374, 195125

Map Name: County Series

Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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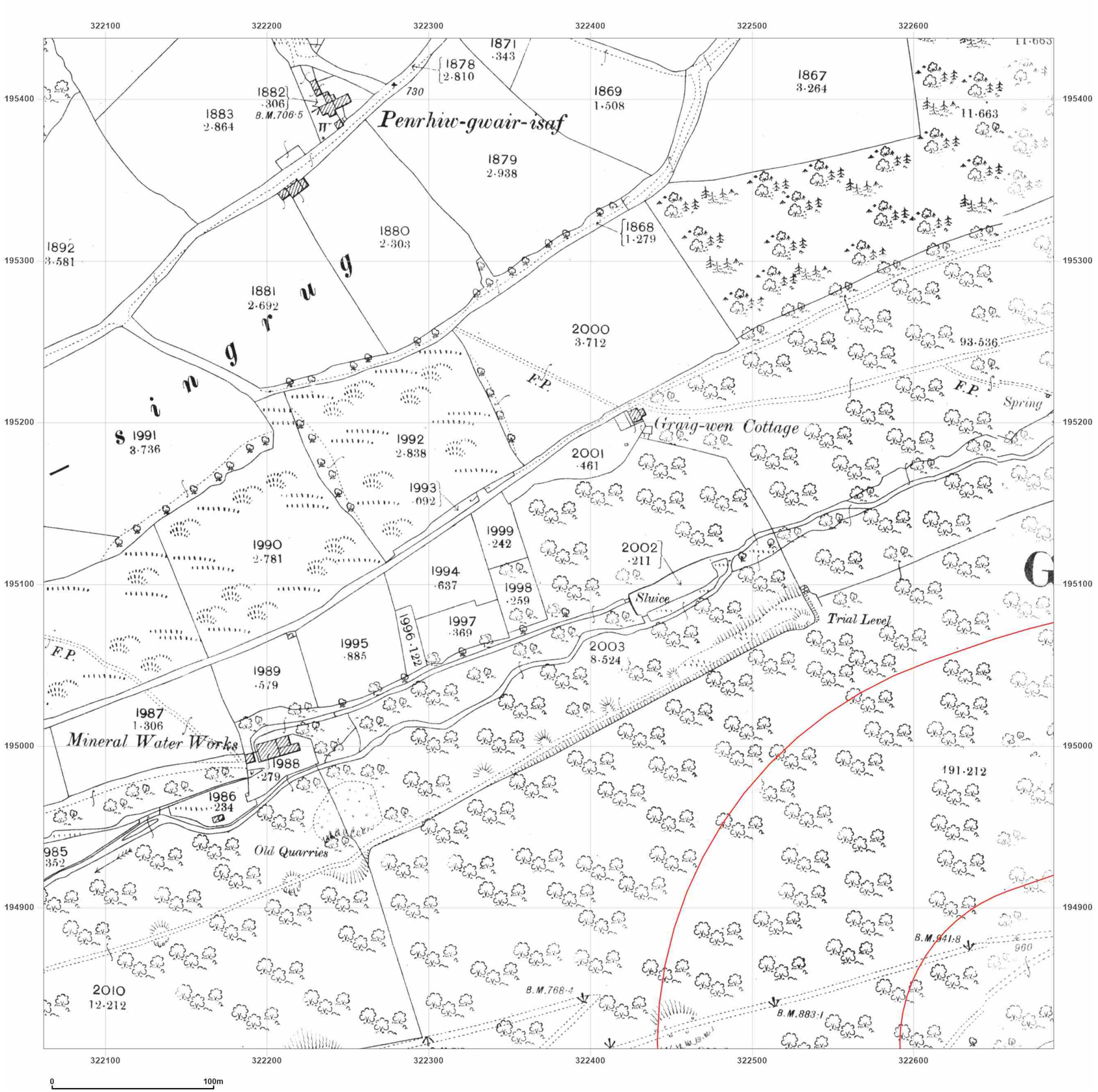
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_2
Grid Ref: 322374, 195125

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

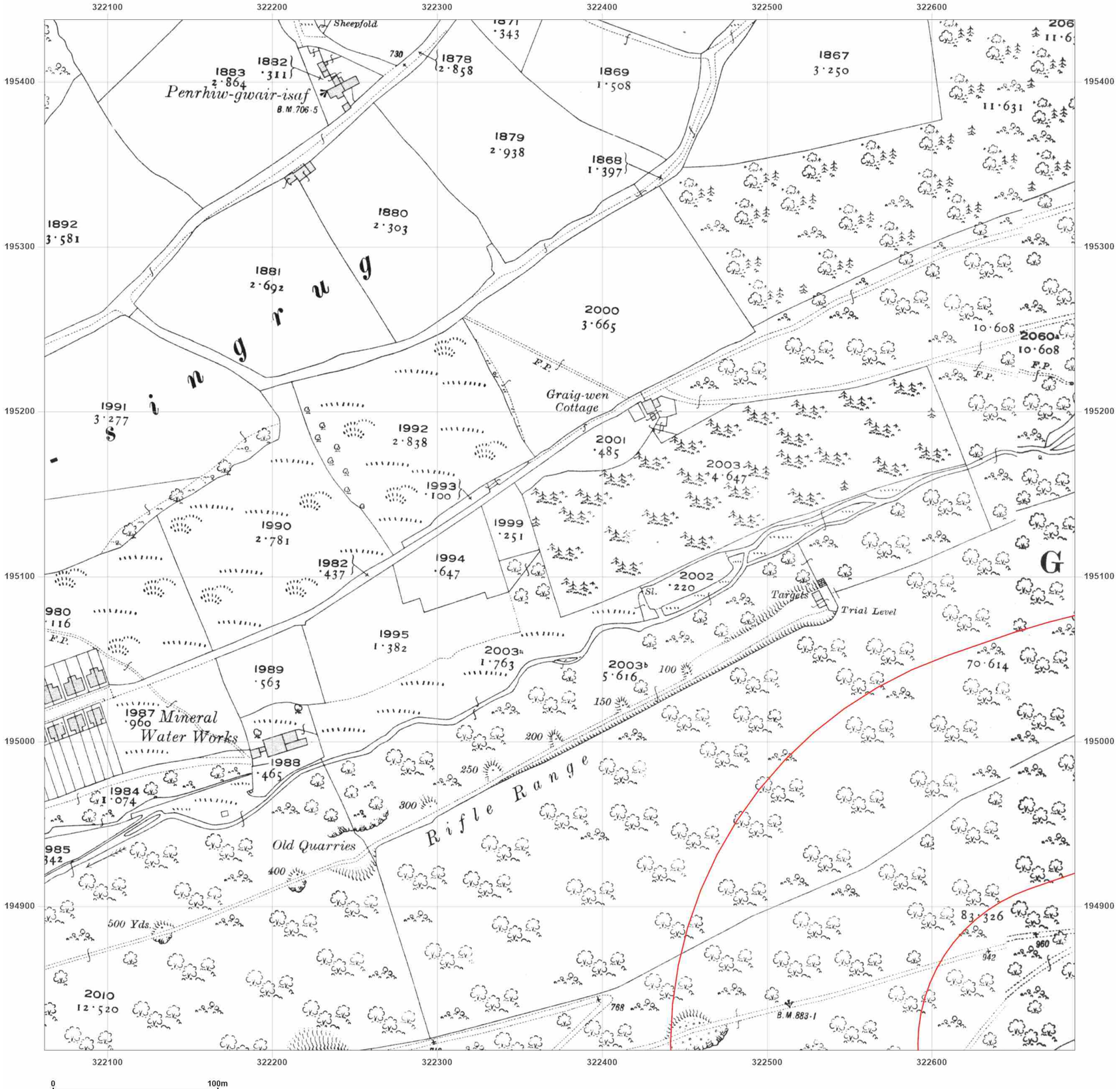
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_2
Grid Ref: 322374, 195125

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

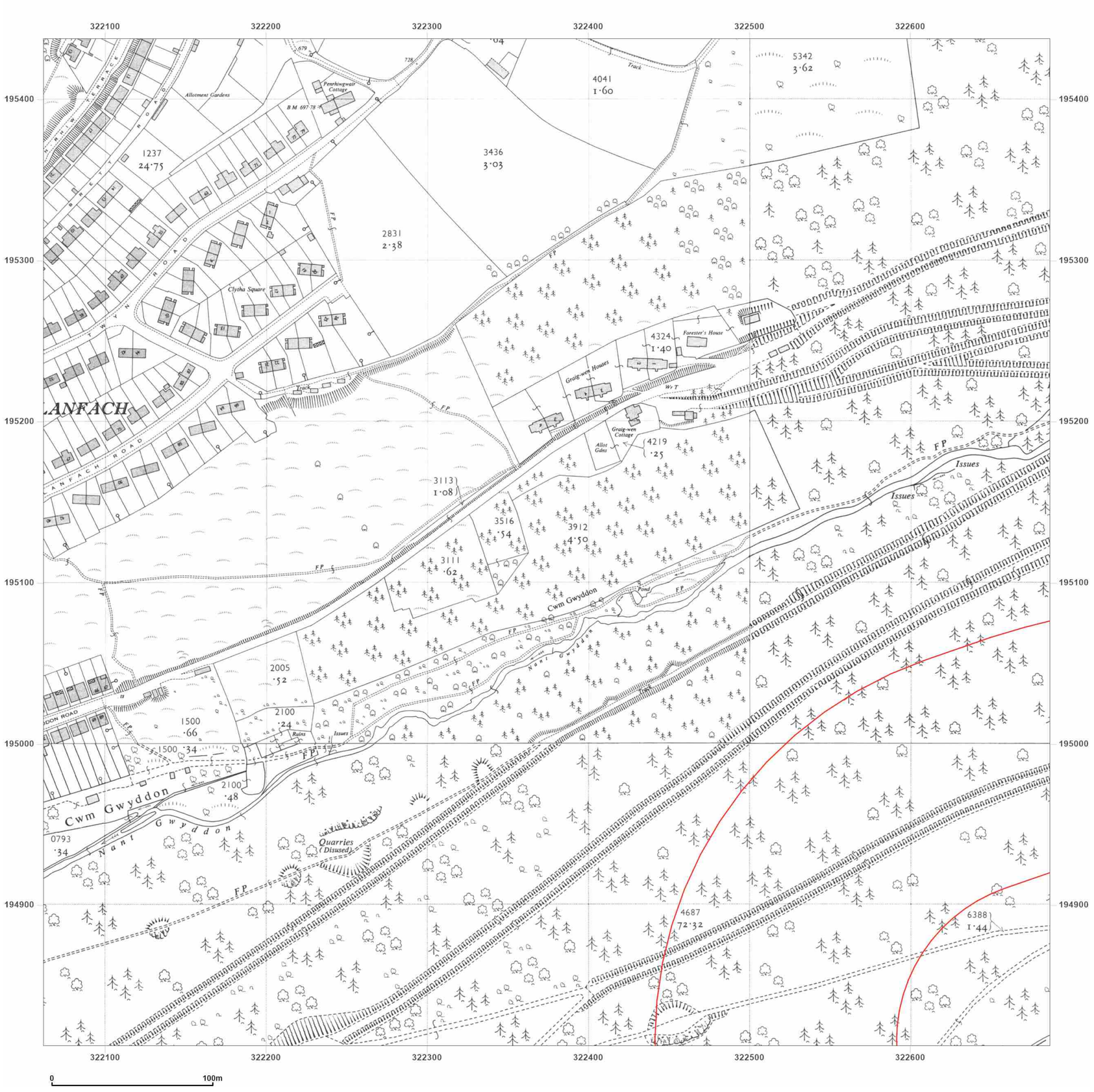
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_2
Grid Ref: 322374, 195125

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition 1962
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

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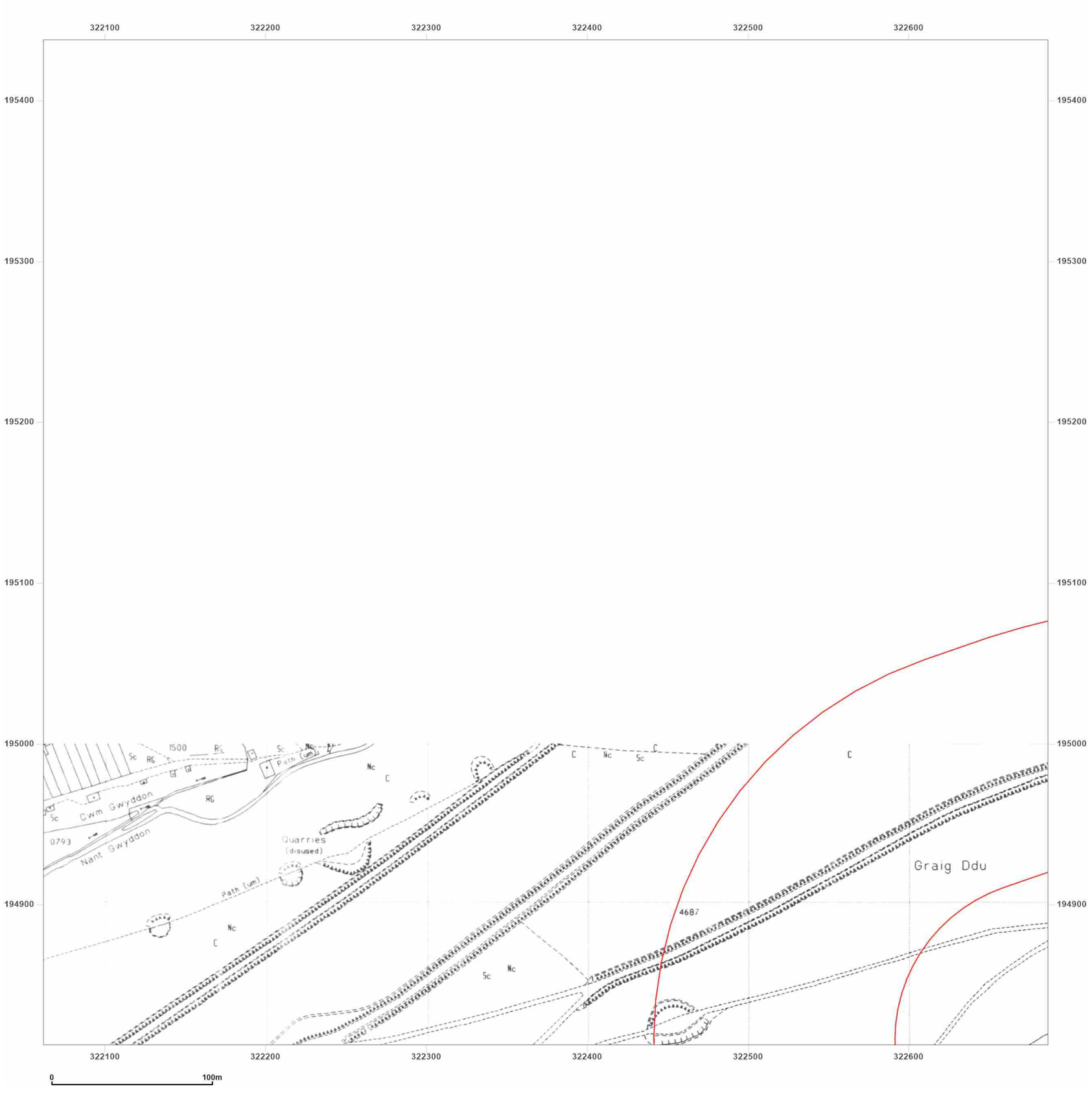
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_2
Grid Ref: 322374, 195125

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

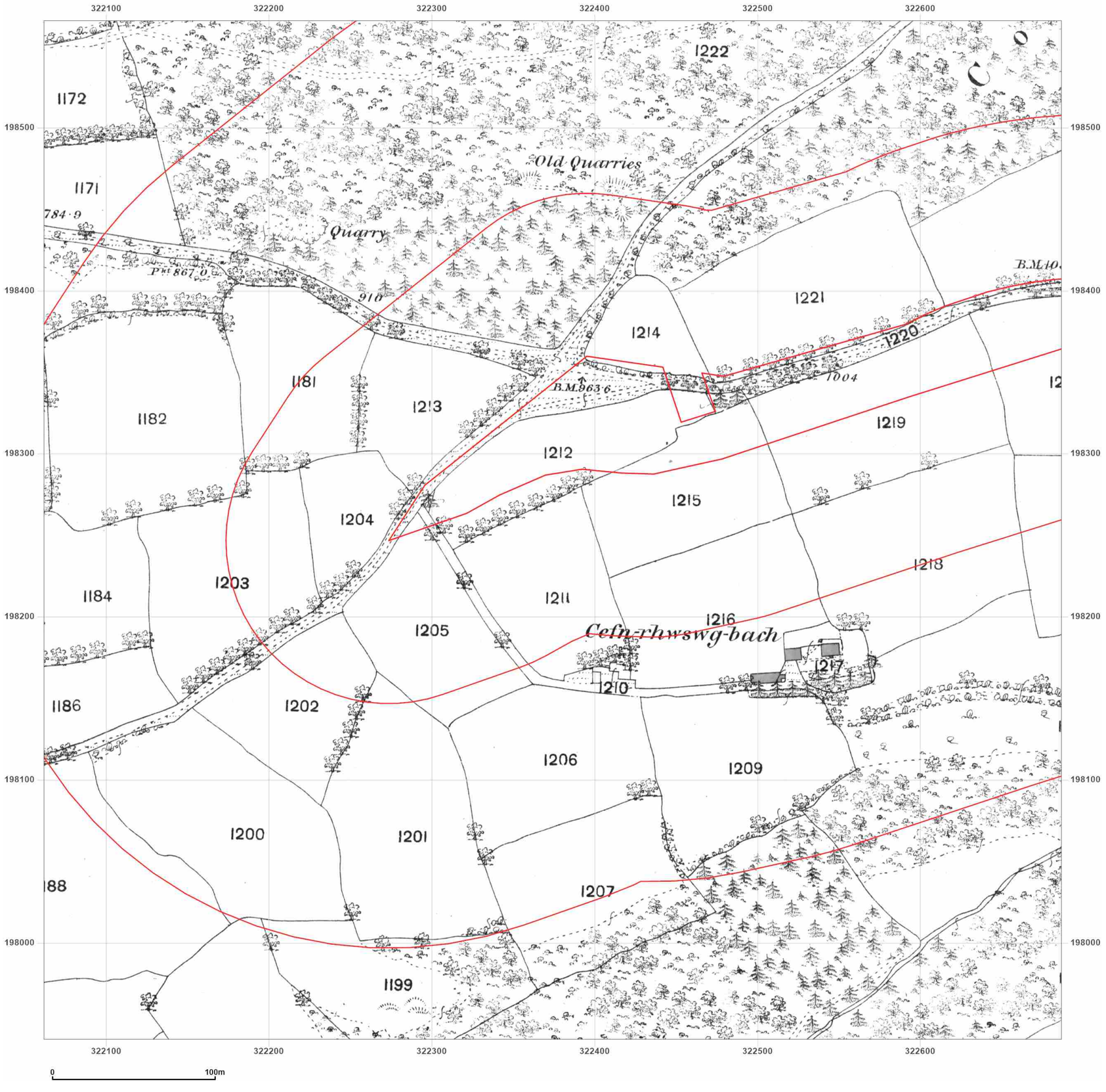
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

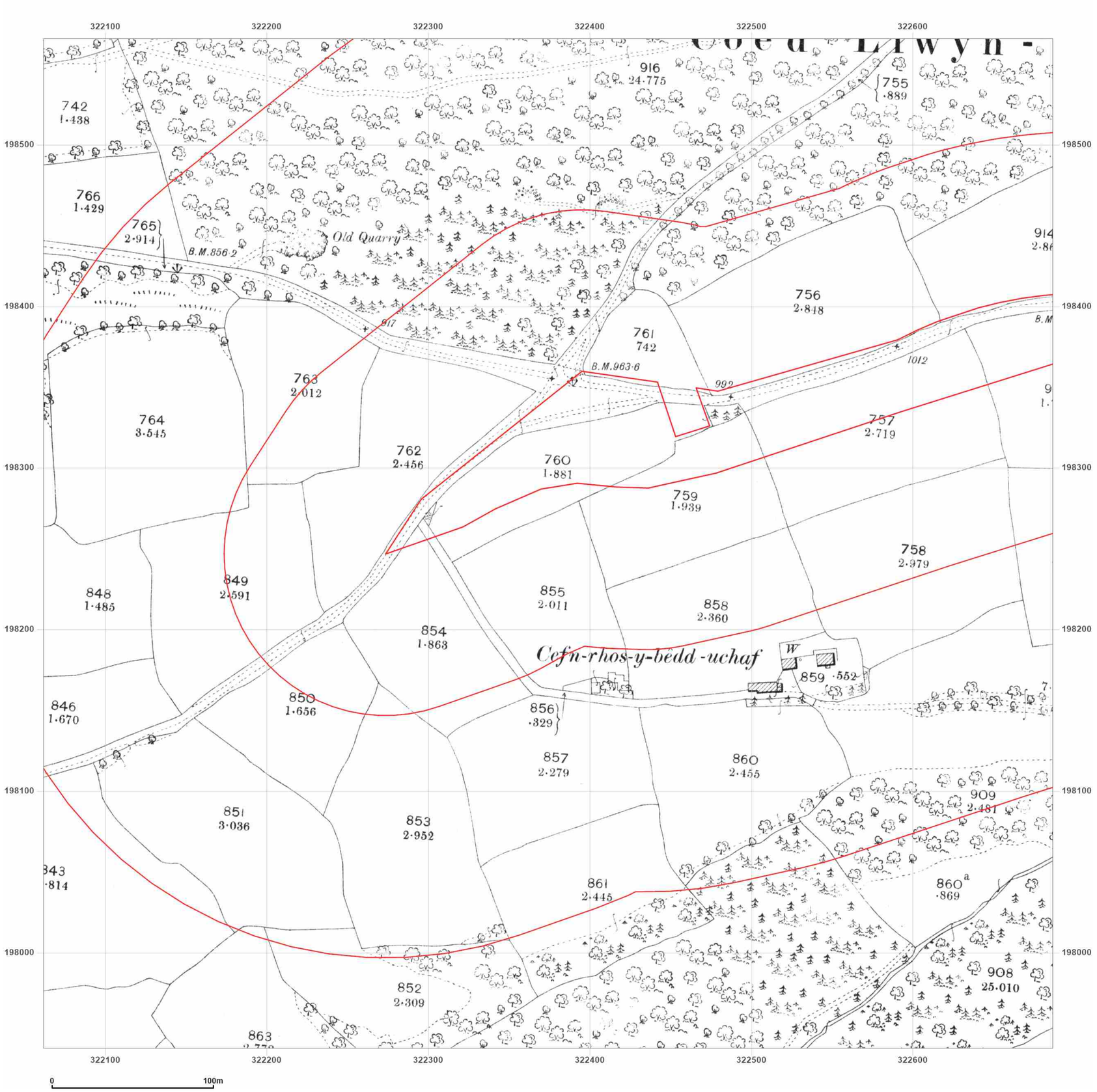
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

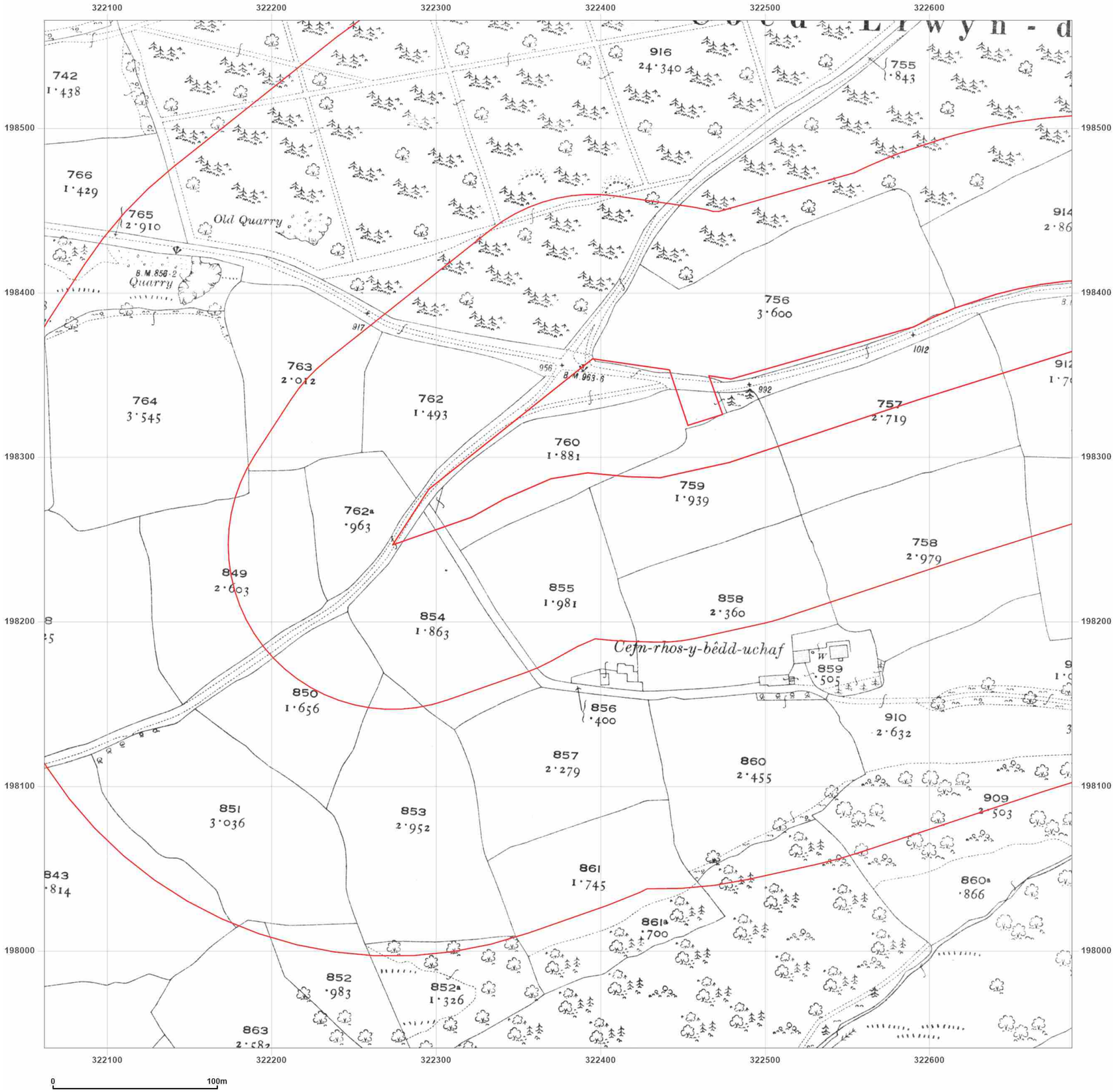
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

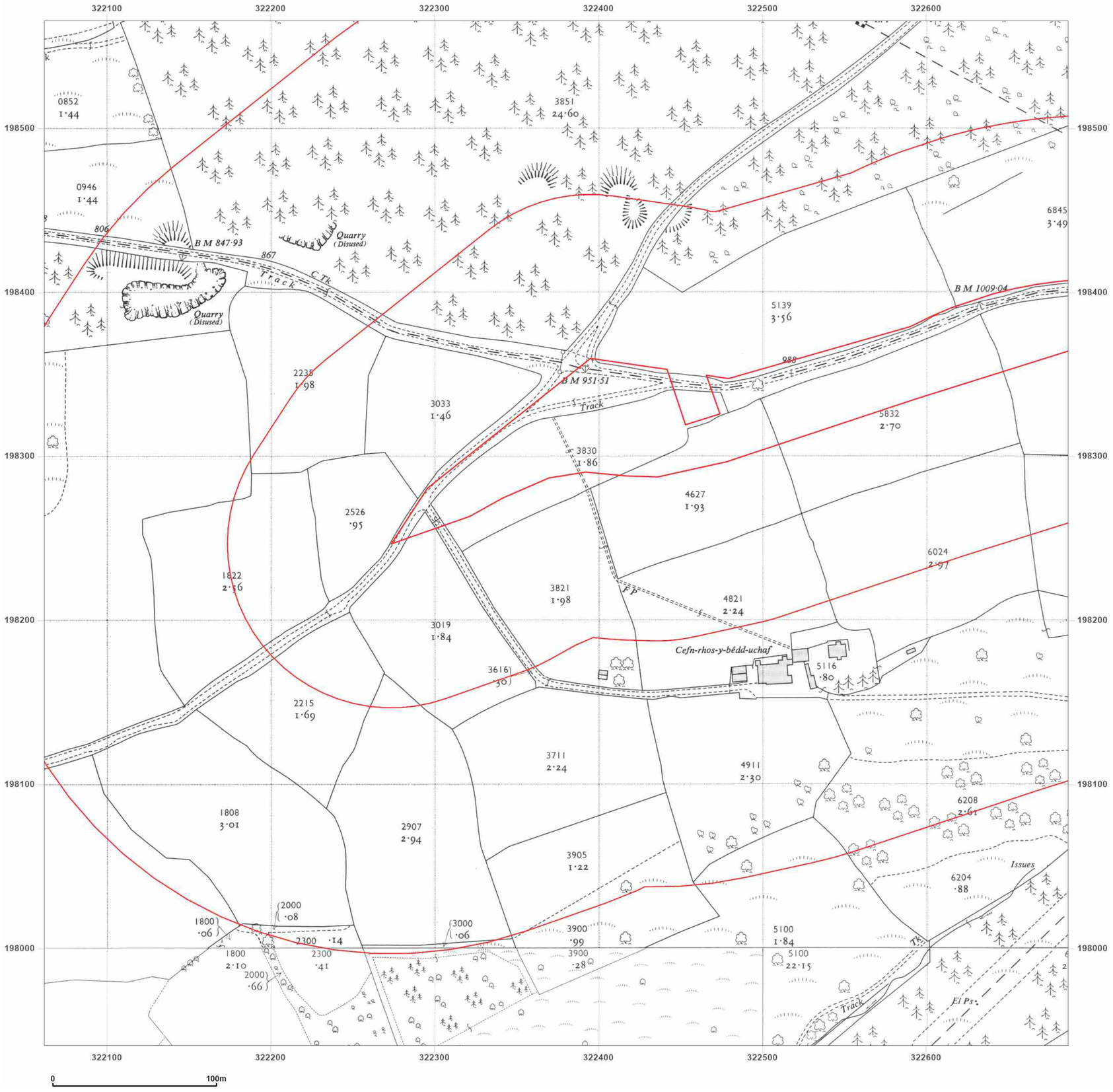
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition 1962
Copyright 1962
Levelled 1958

Groundsure INSIGHTS

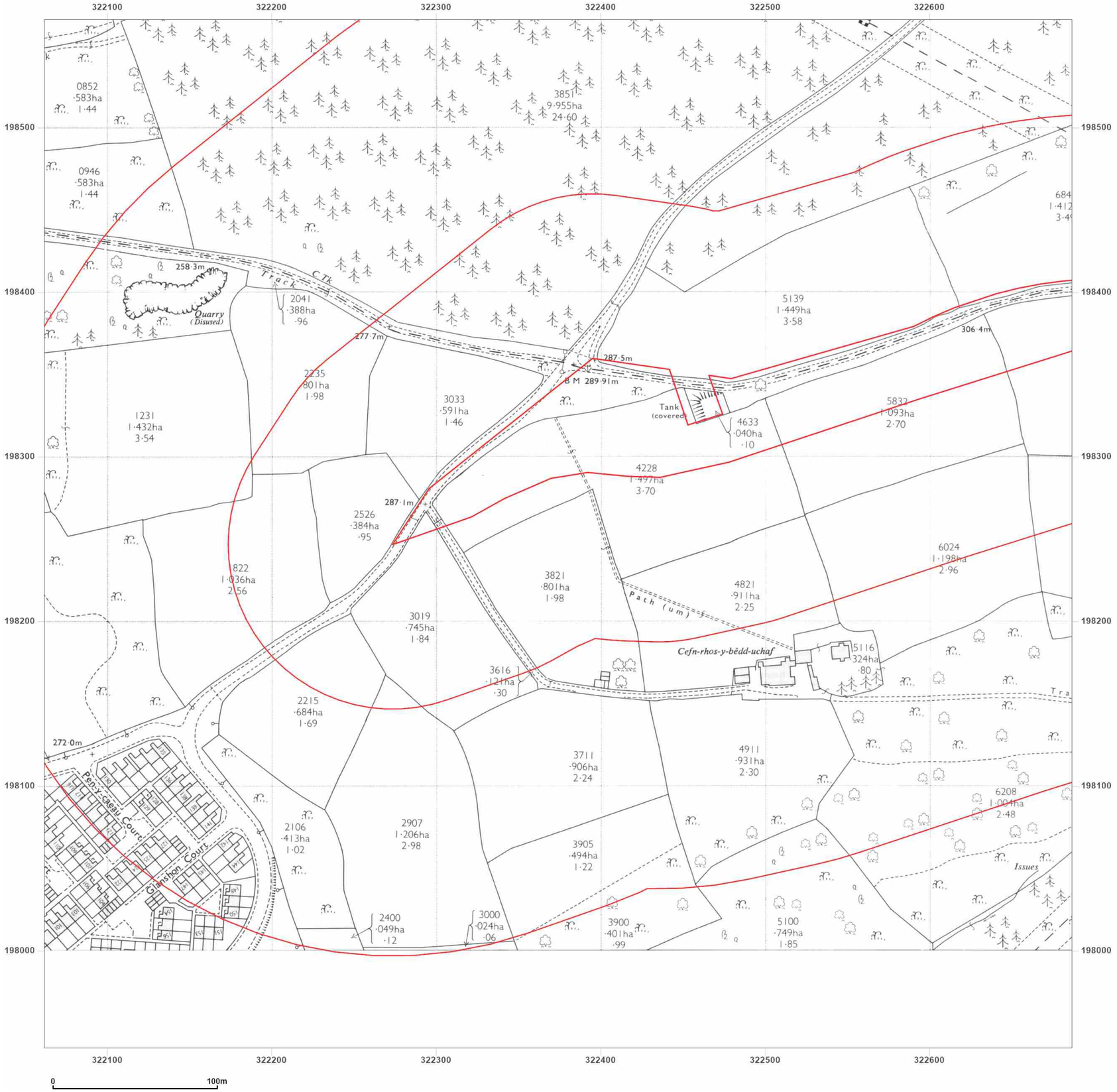
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: National Grid

Map date: **1976**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1965

Groundsure INSIGHTS

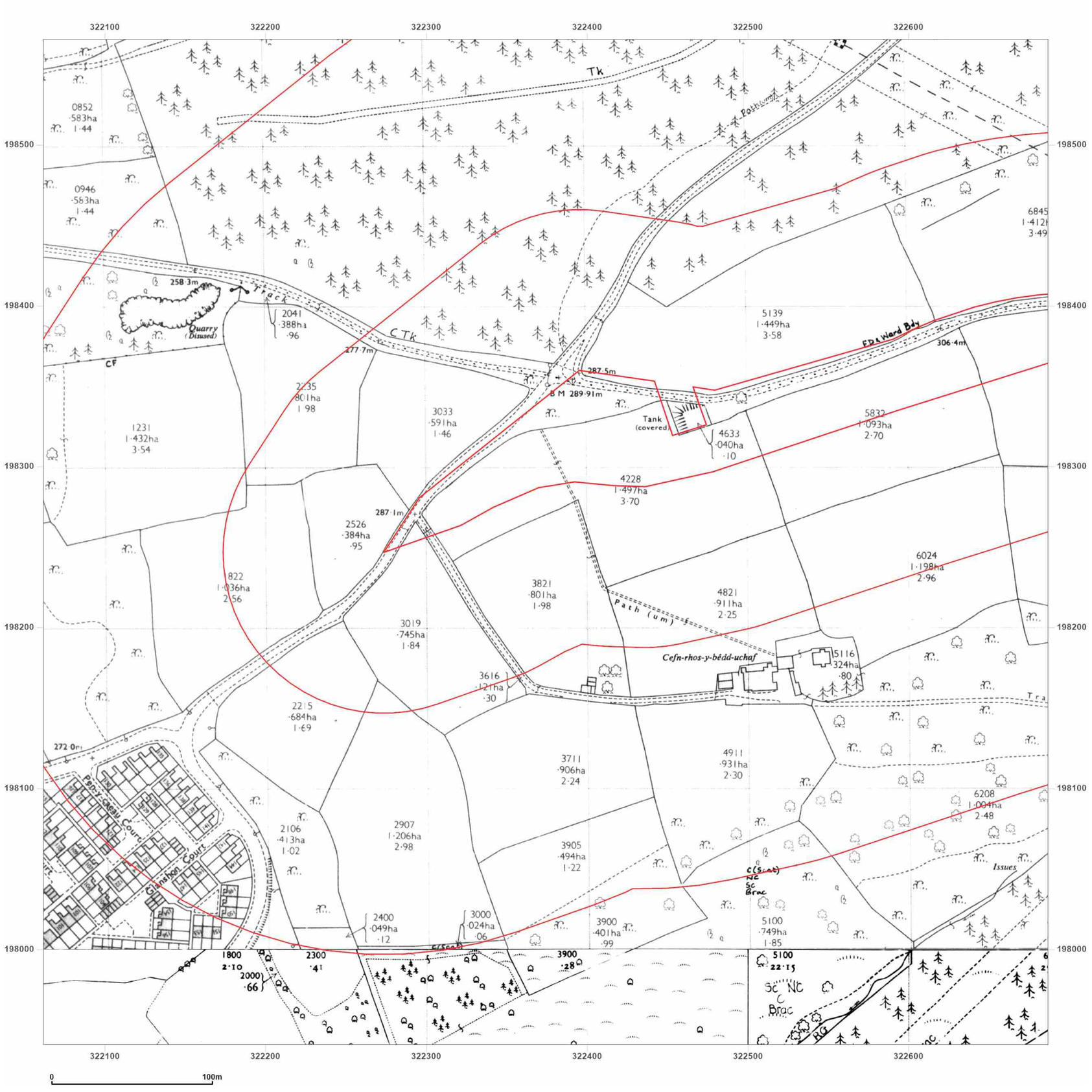
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: National Grid

Map date: **1989**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1965
Revised 1989
Edition N/A
Copyright 1989
Levelled 1965

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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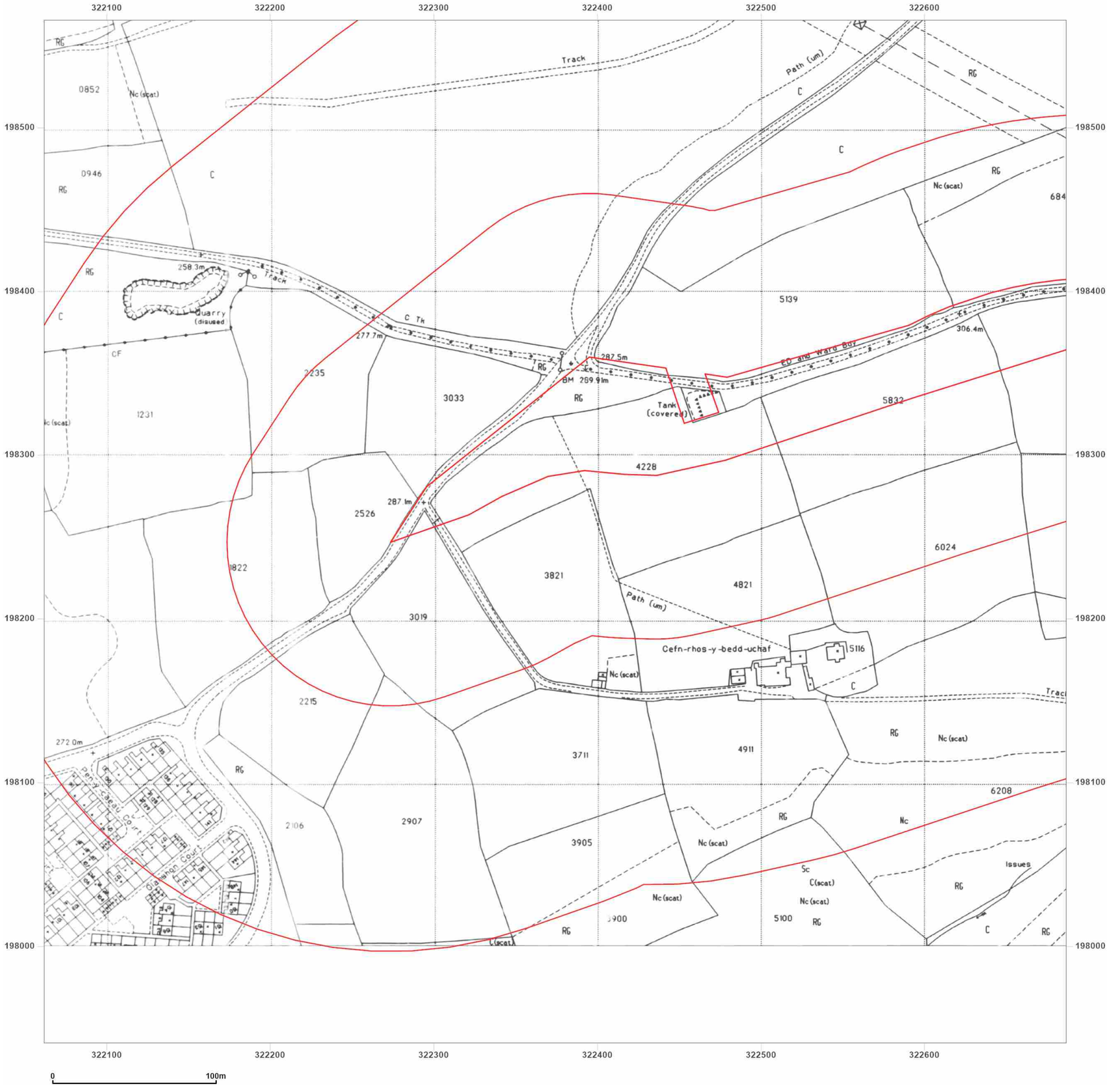
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_1_7
Grid Ref: 322374, 198253

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

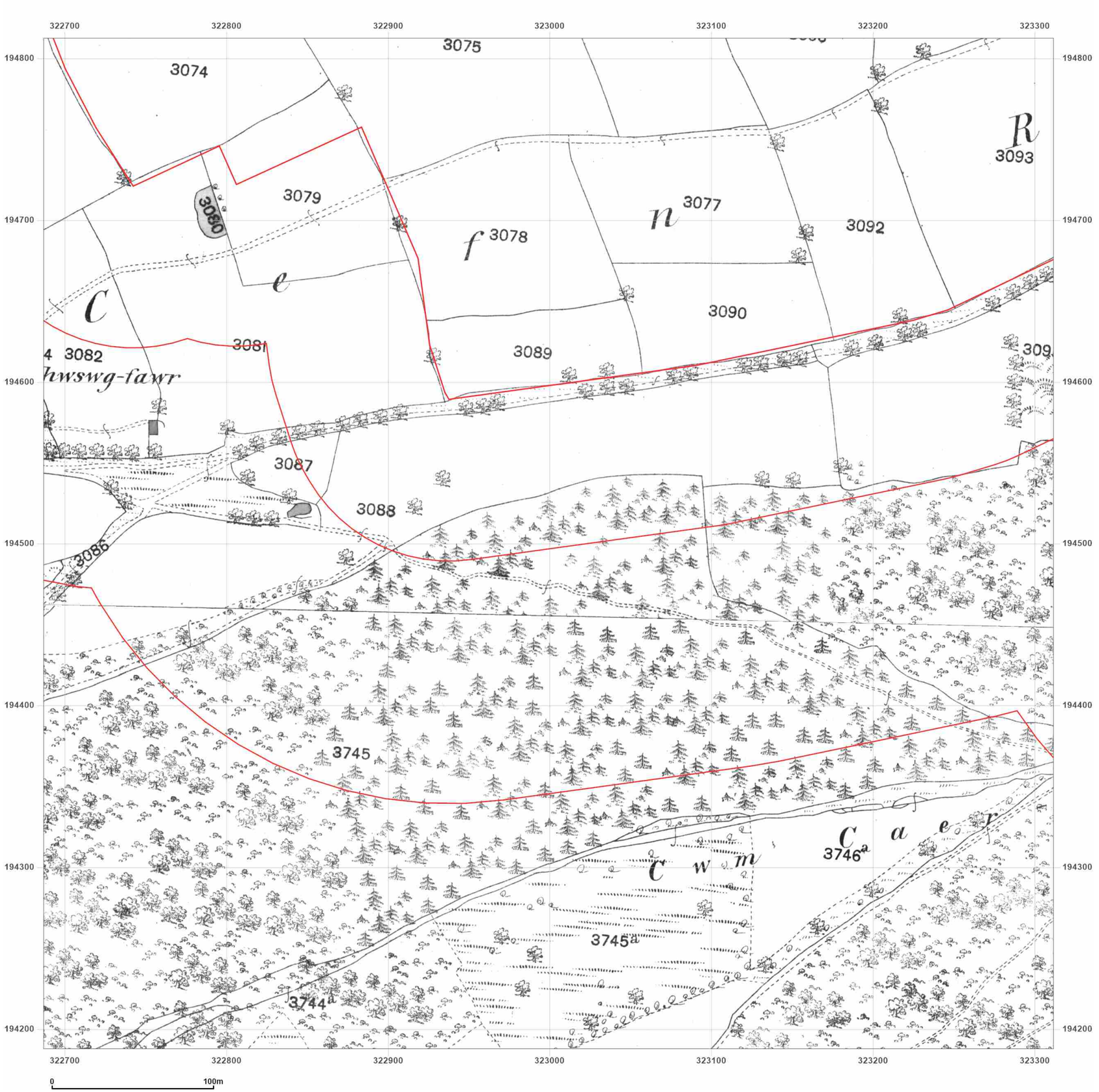
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_1
Grid Ref: 322999, 194500

Map Name: County Series

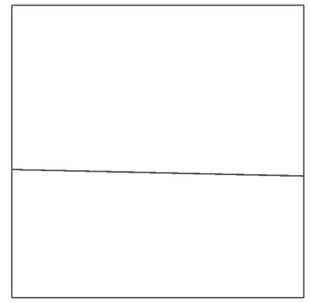
Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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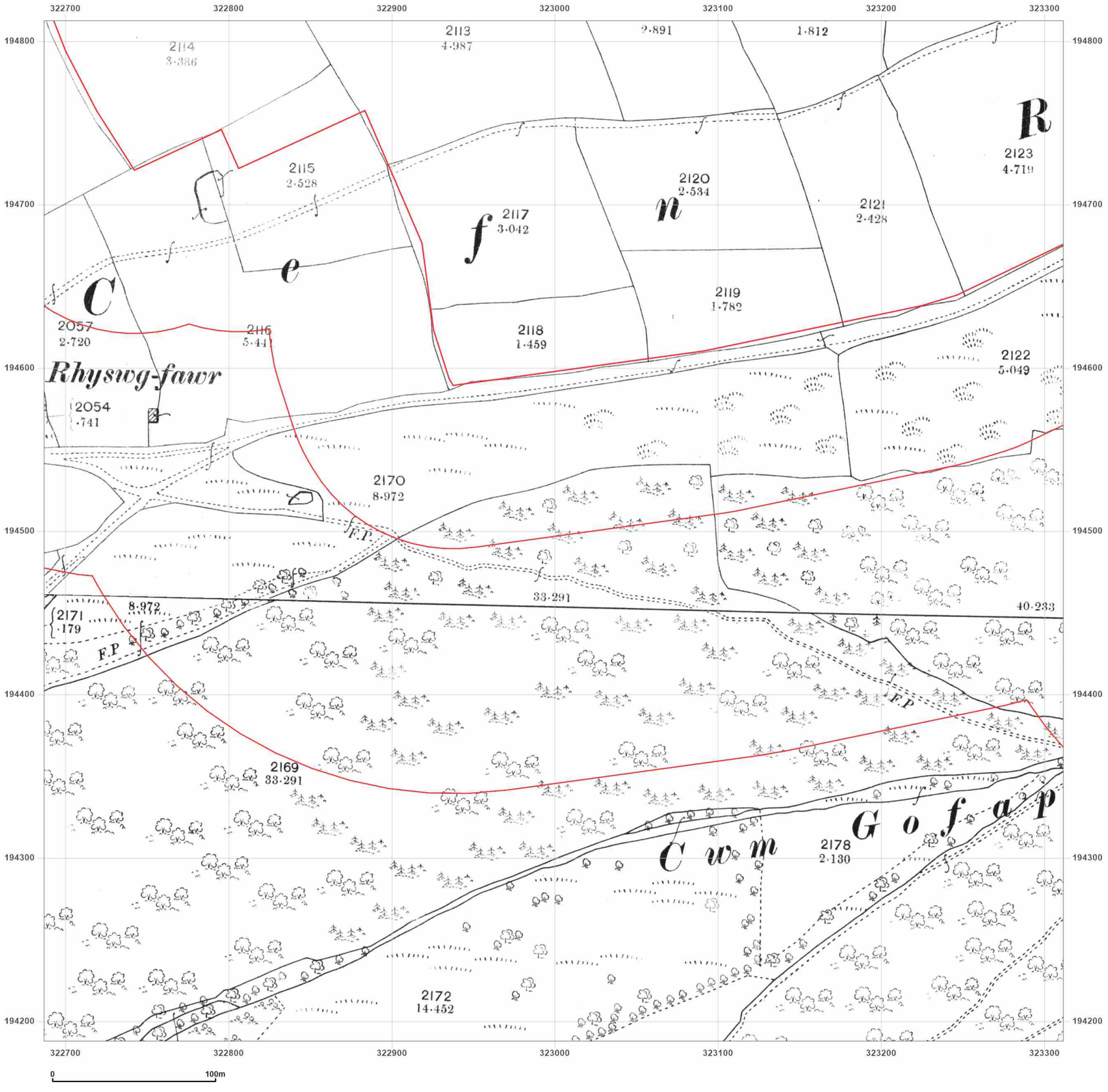
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Production date: 12 September 2025

Map legend available at:
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_1
Grid Ref: 322999, 194500

Map Name: County Series

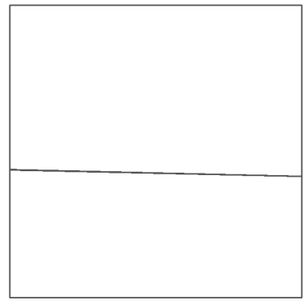
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

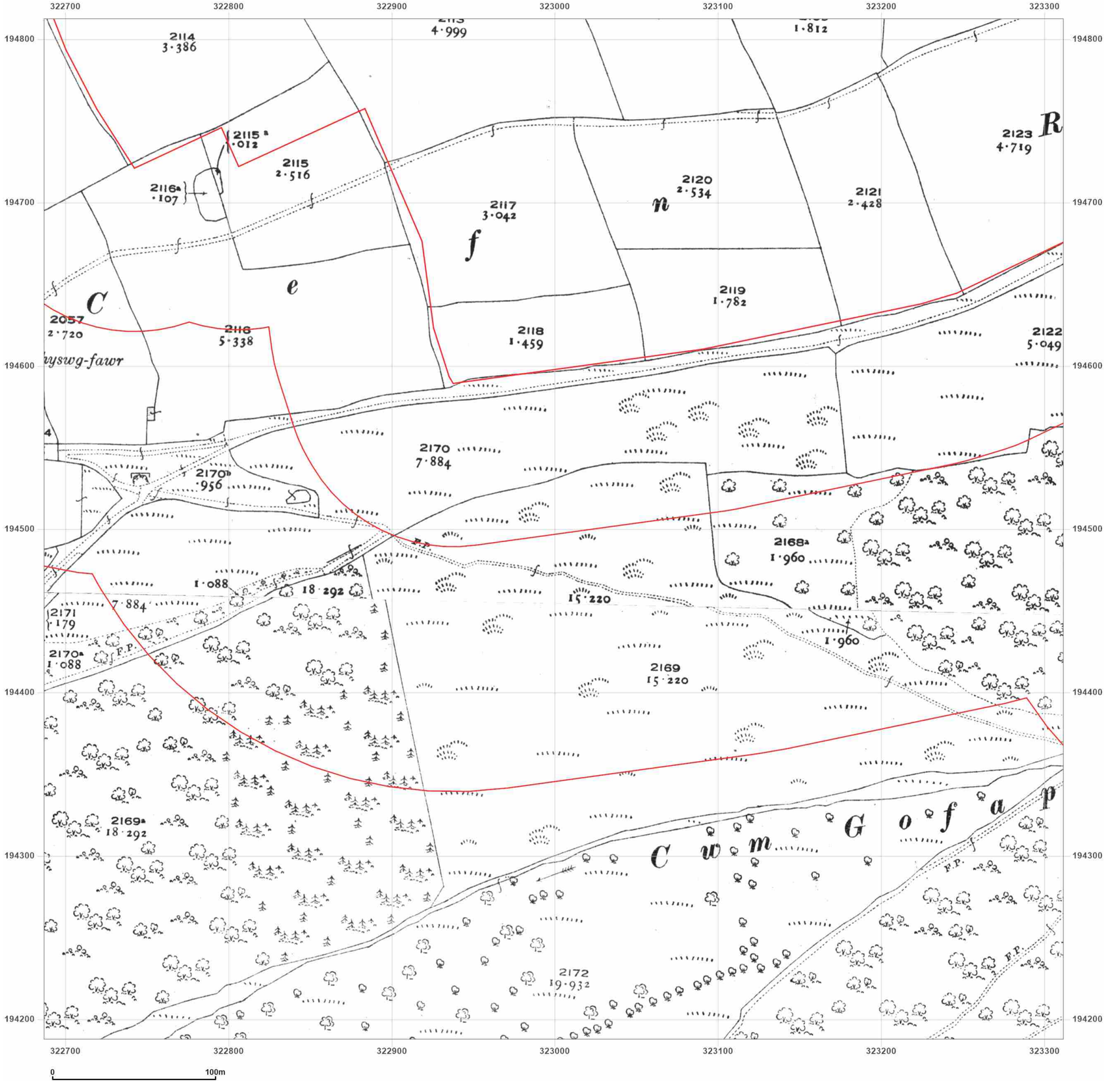
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_1
Grid Ref: 322999, 194500

Map Name: County Series

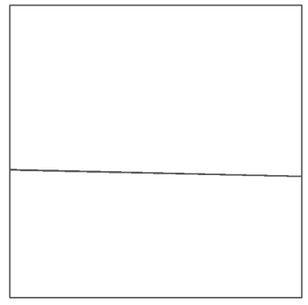
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_1
Grid Ref: 322999, 194500

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

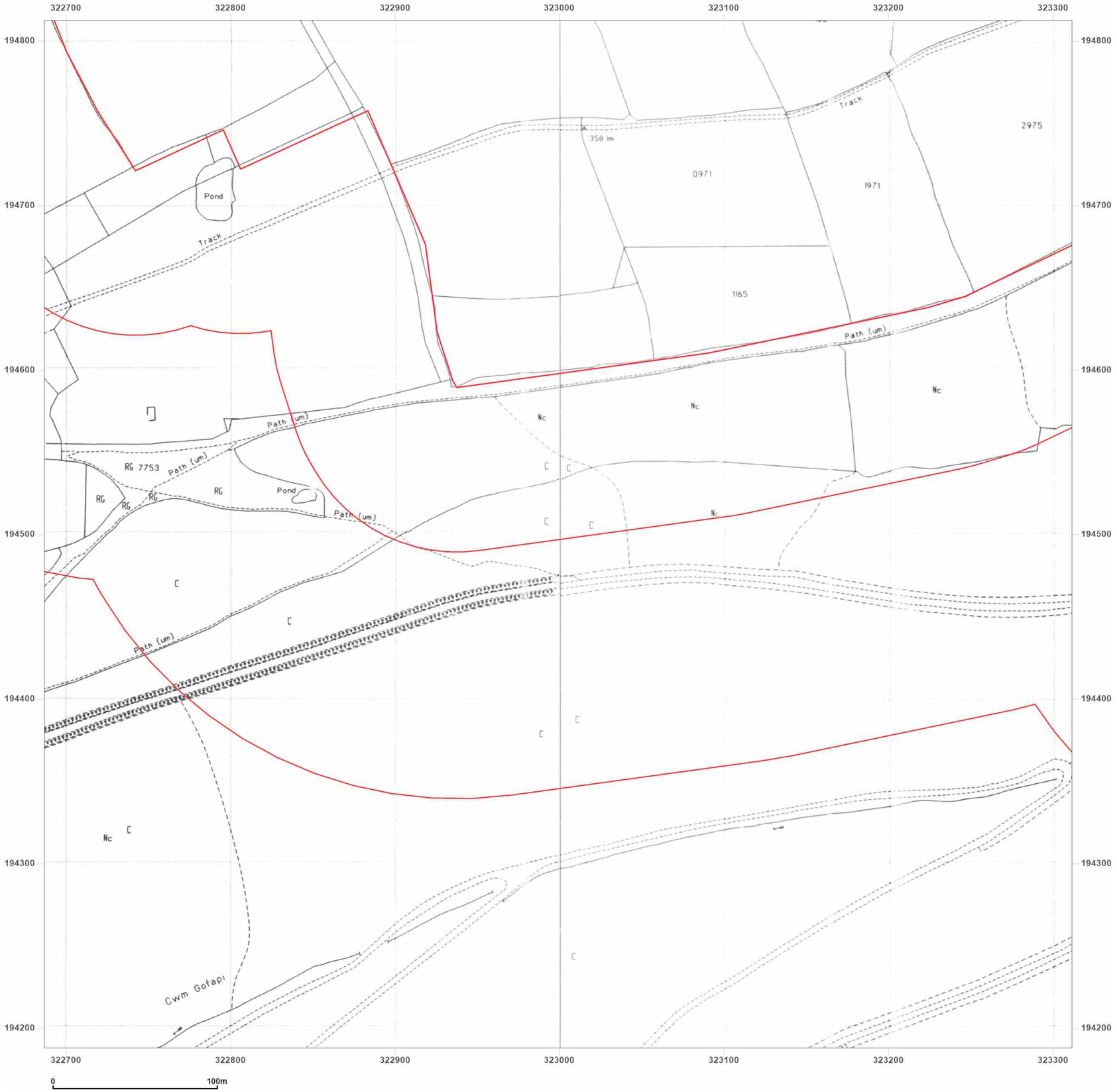
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_1
Grid Ref: 322999, 194500

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

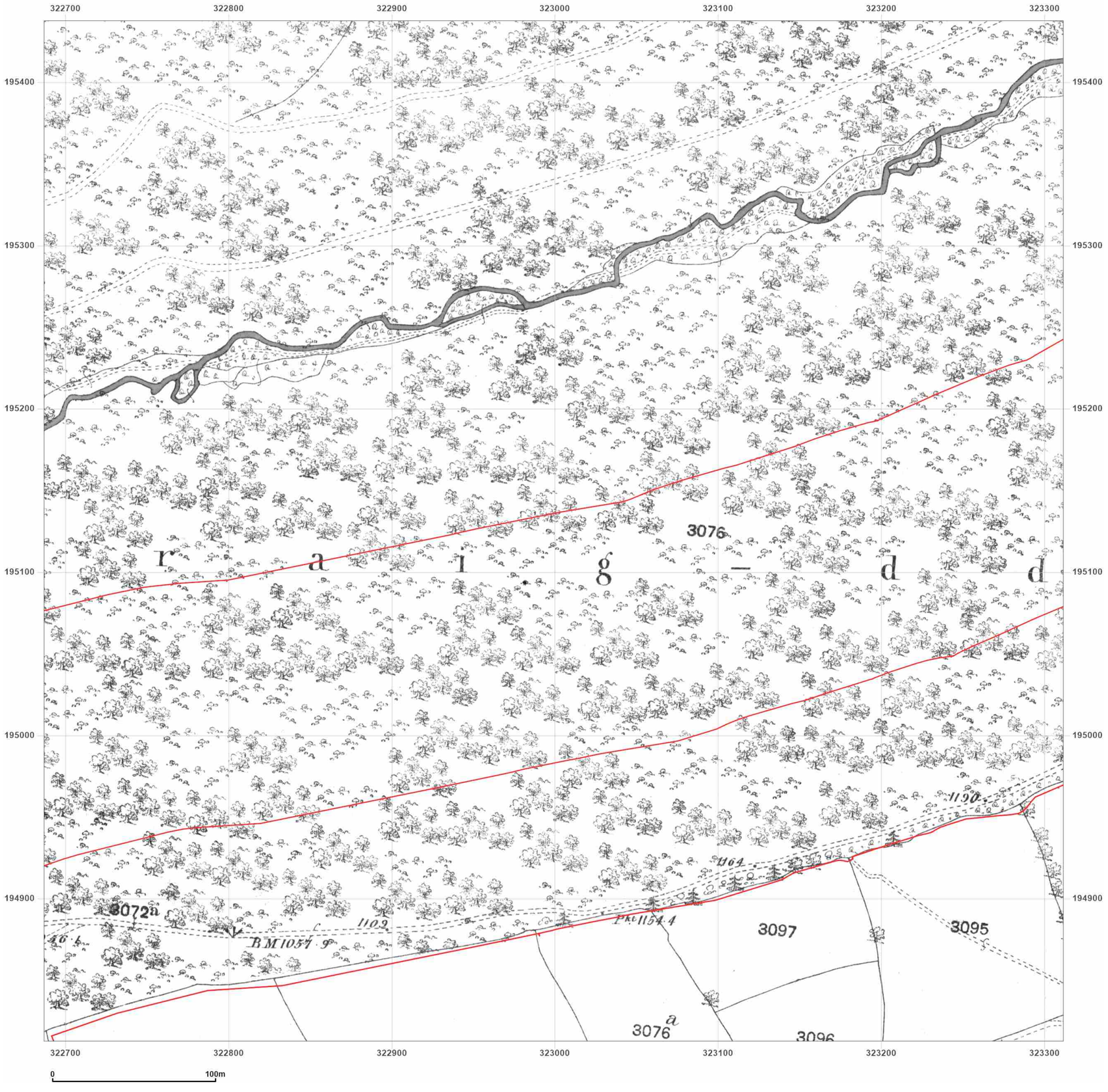
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_2
Grid Ref: 322999, 195125

Map Name: County Series

Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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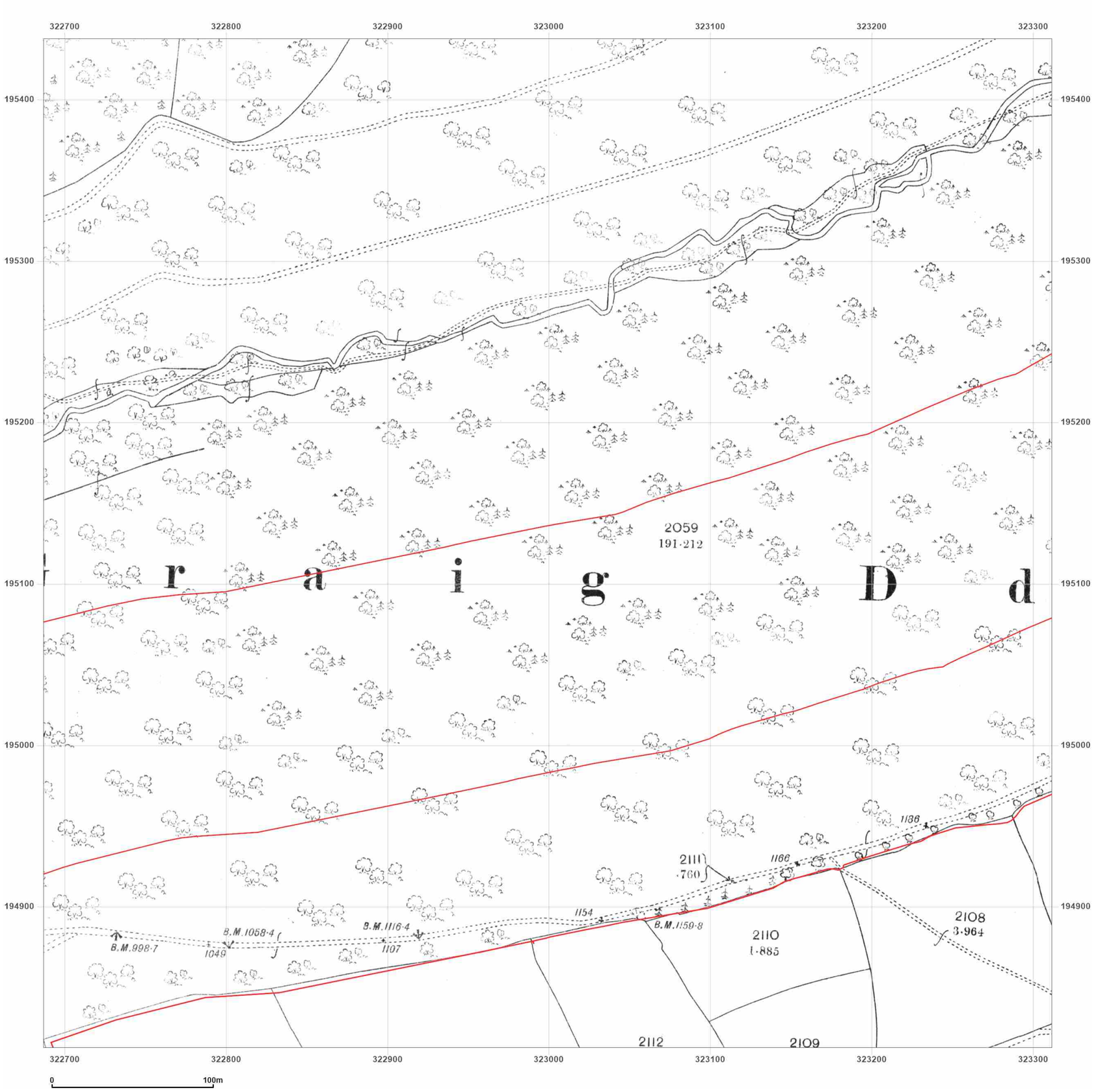
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_2
Grid Ref: 322999, 195125

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

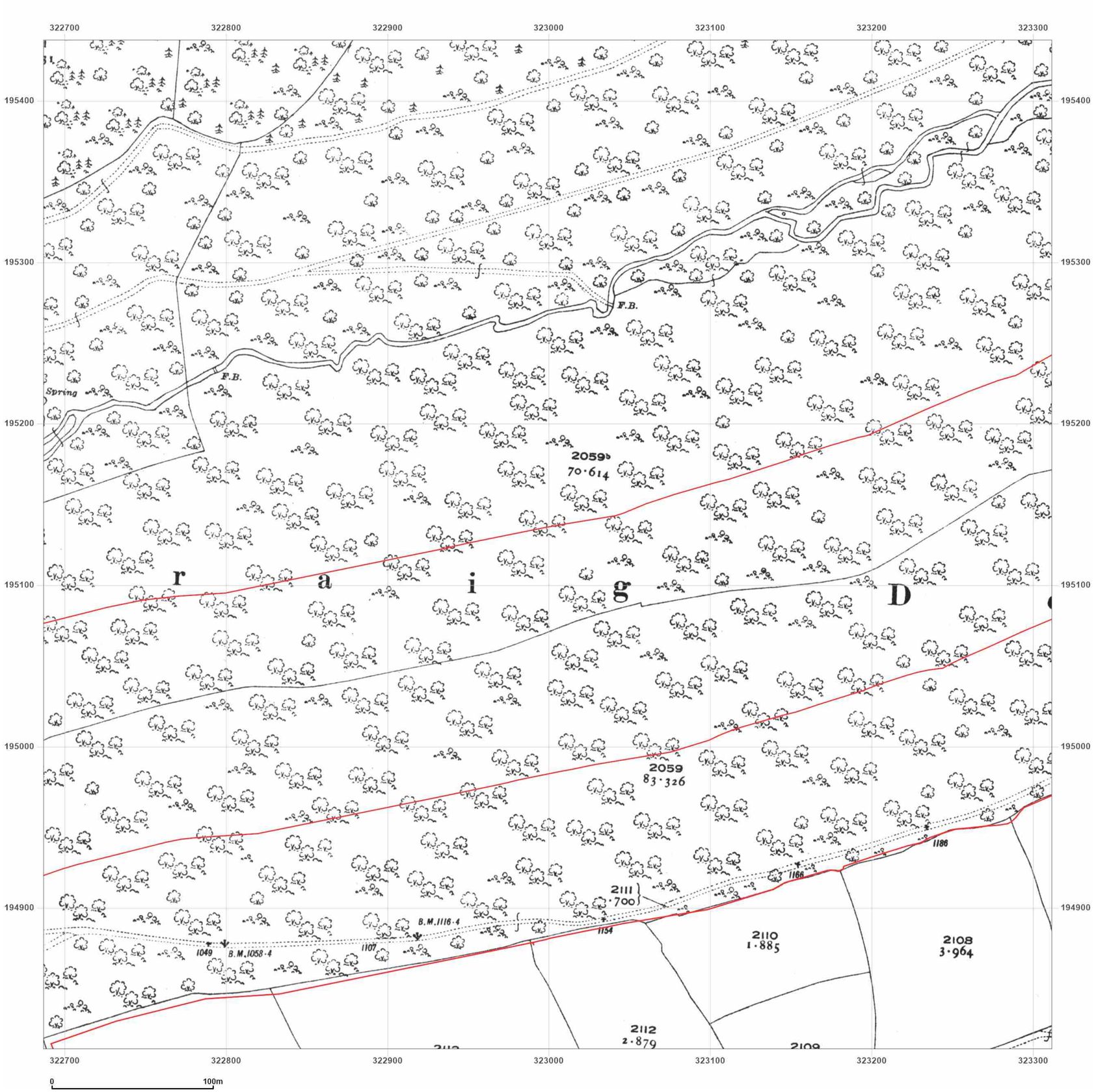
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_2
Grid Ref: 322999, 195125

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

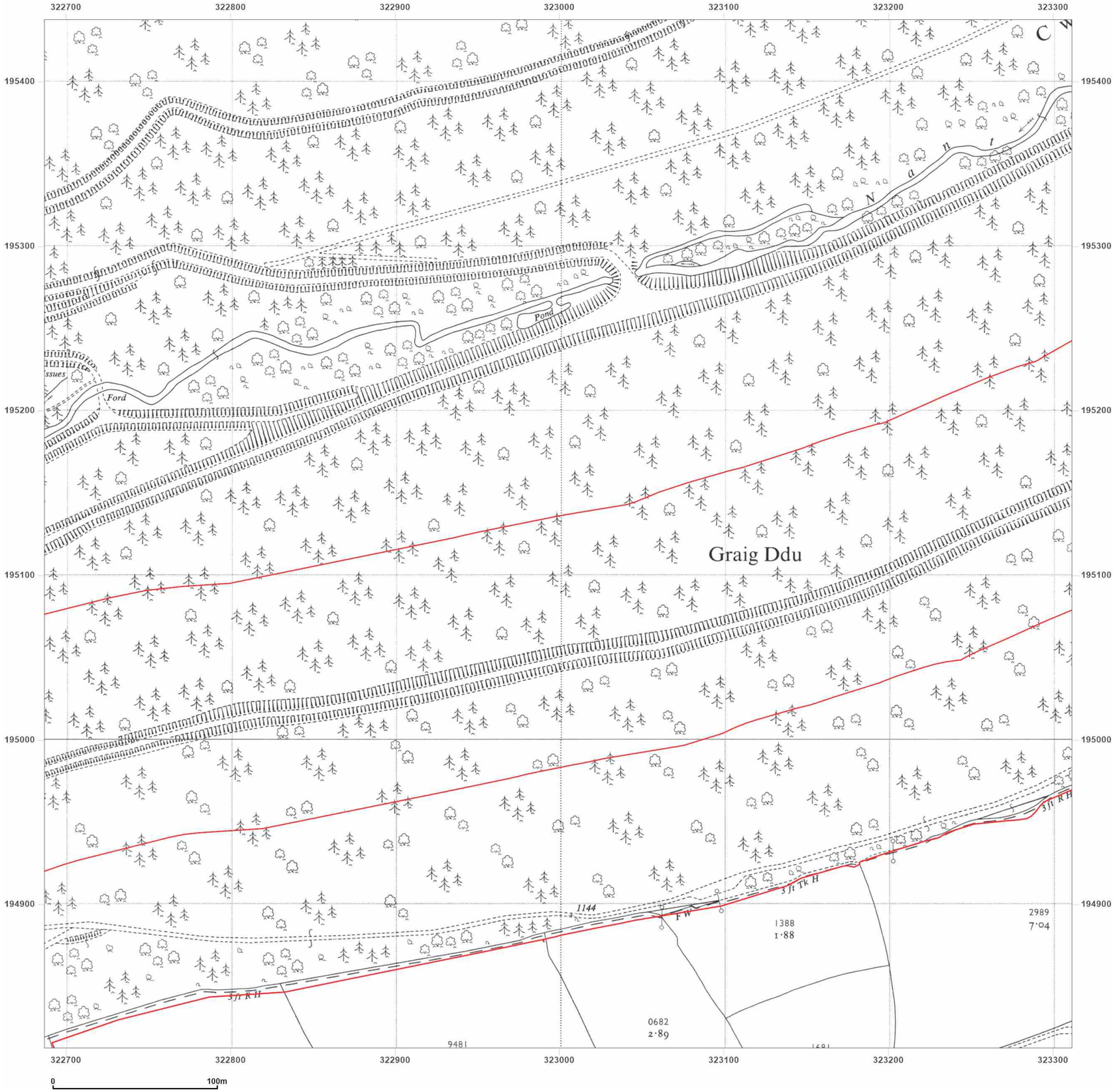
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_2
Grid Ref: 322999, 195125

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition 1962
Copyright 1962
Levelled 1958

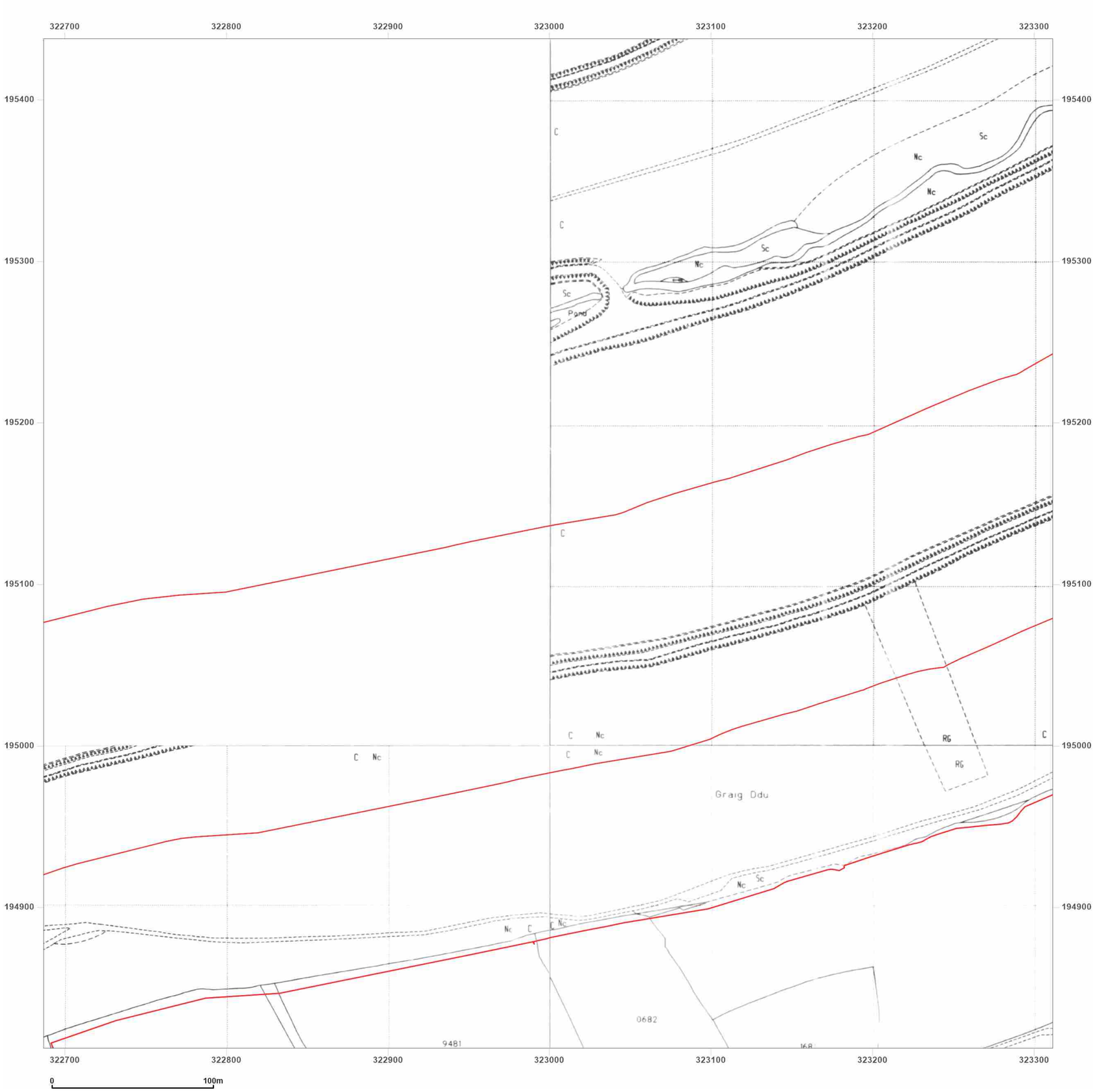
Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_2
Grid Ref: 322999, 195125

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

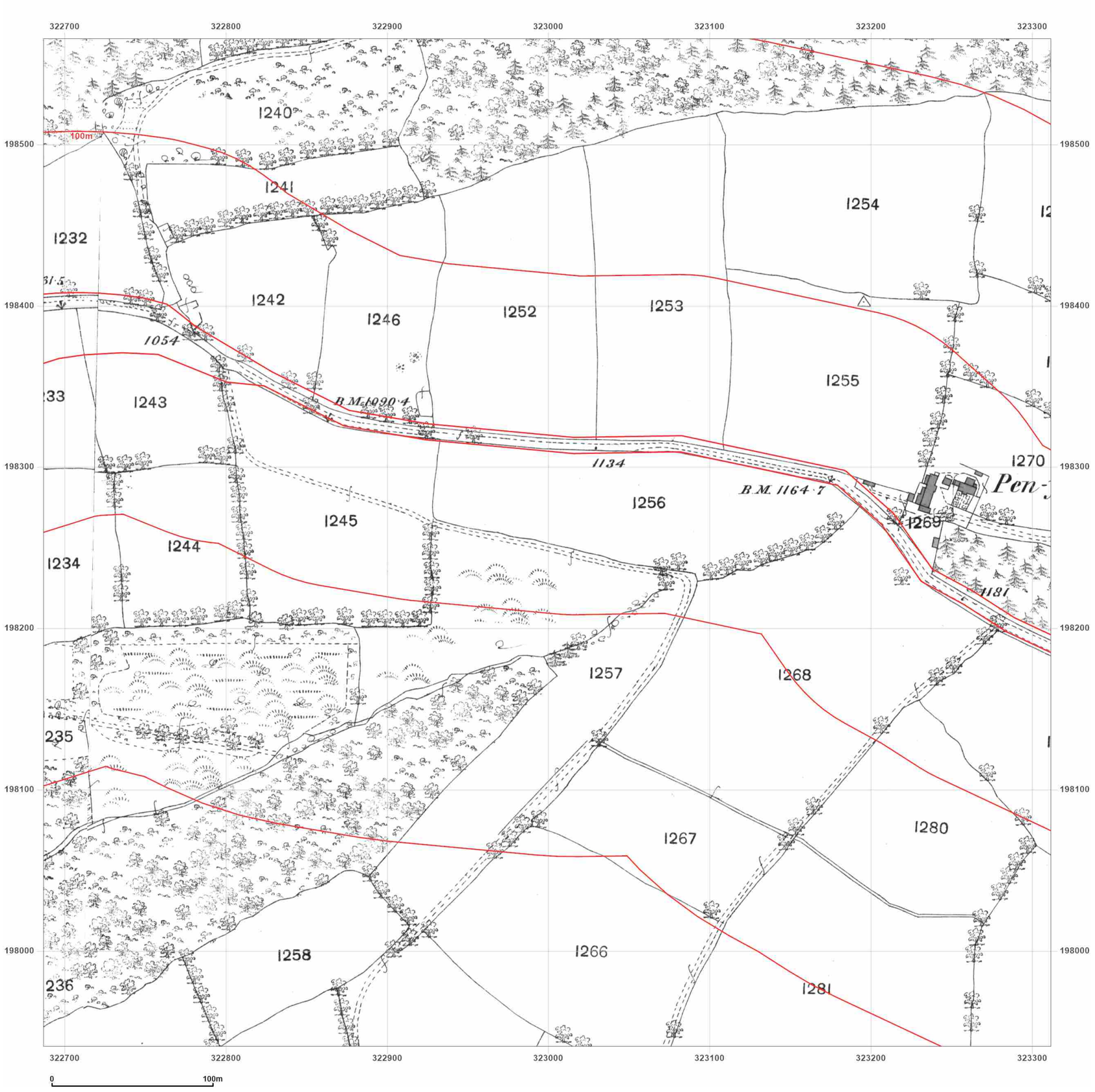
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

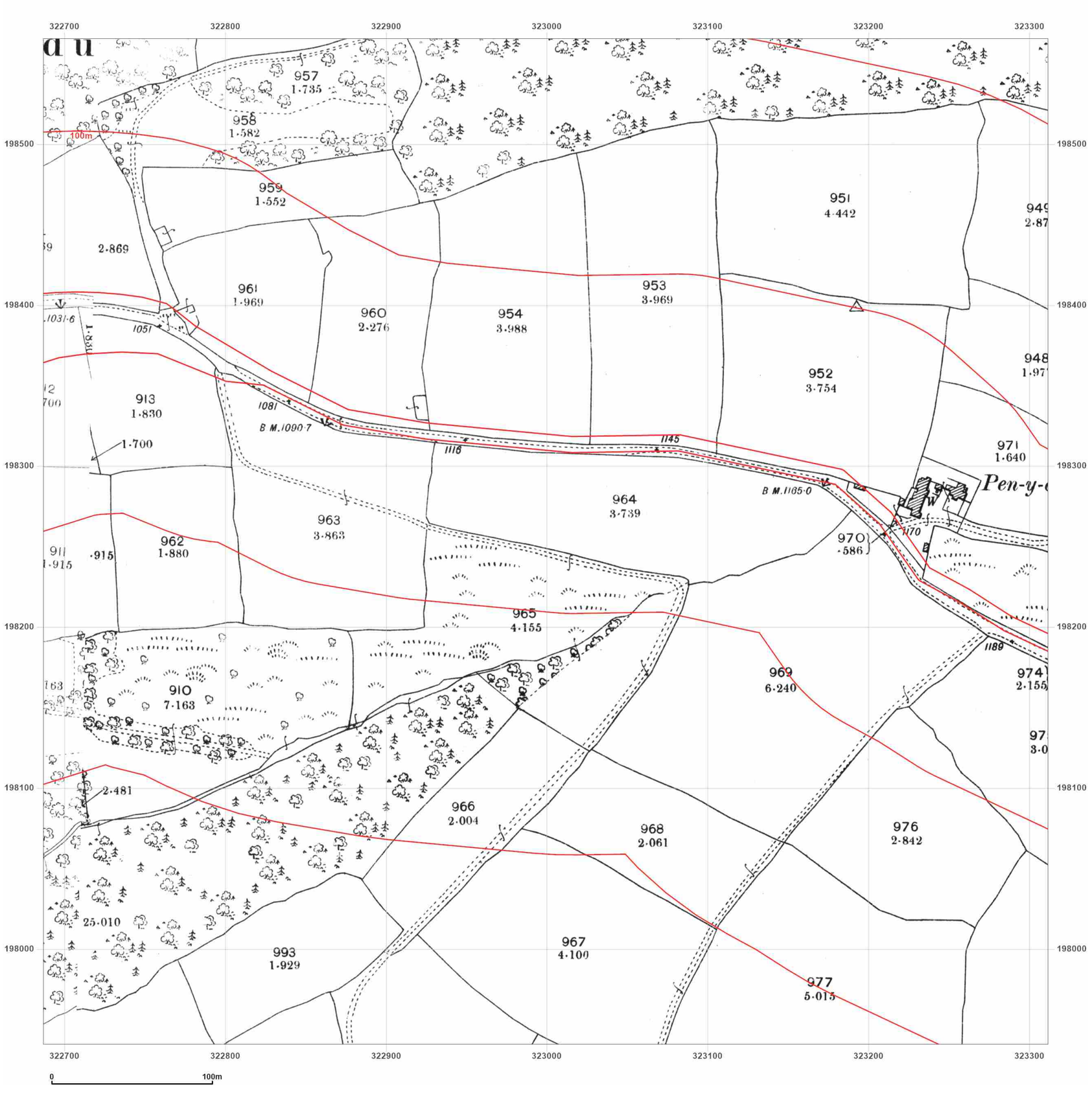
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: County Series

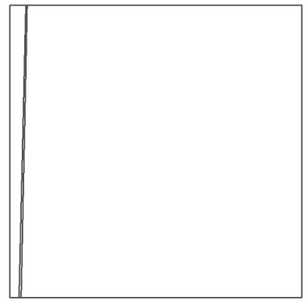
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

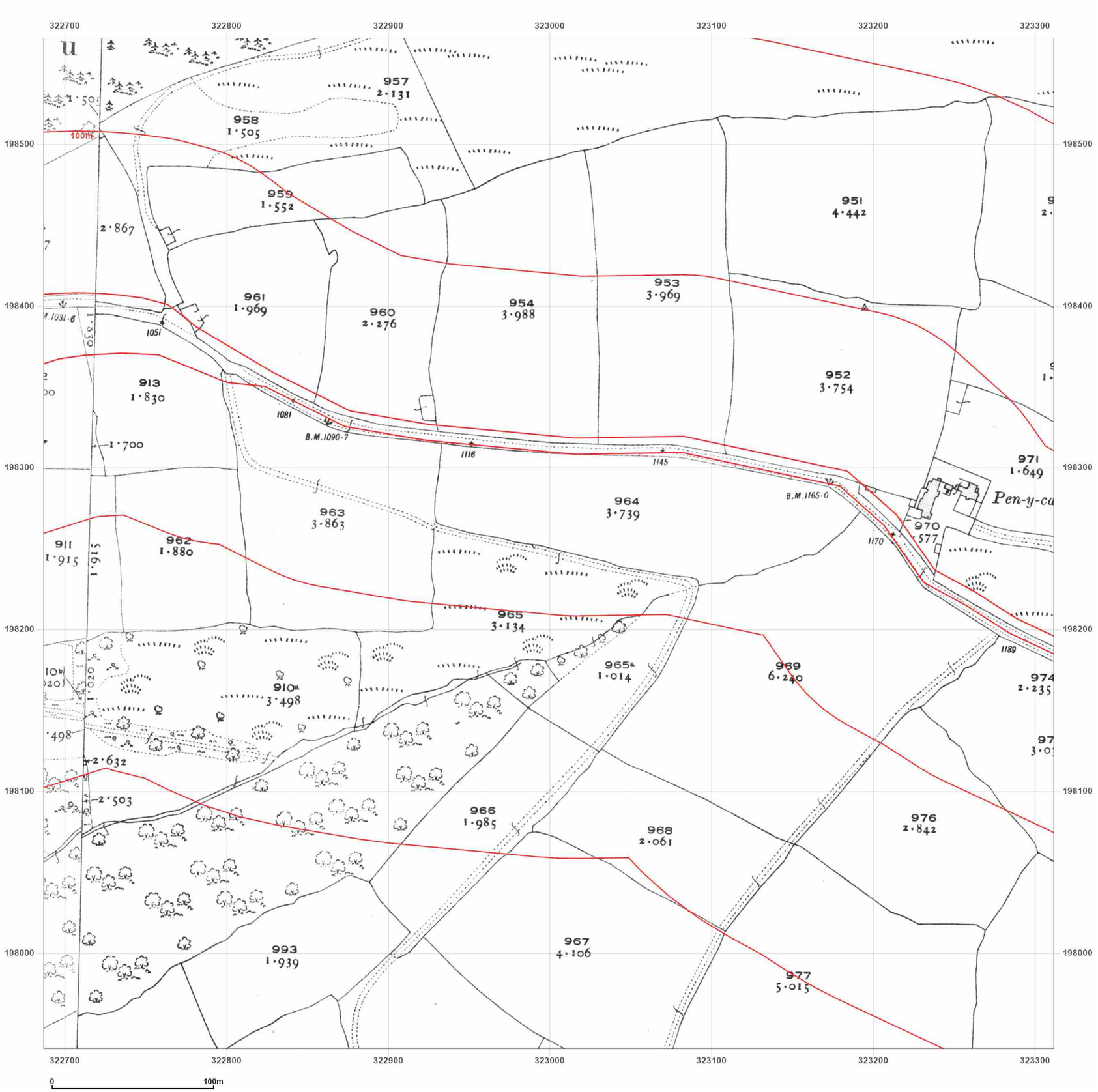
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: County Series

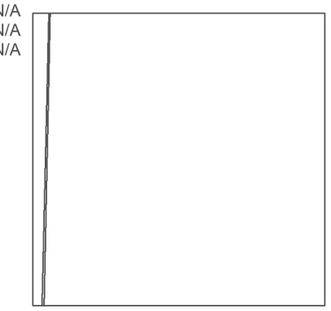
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

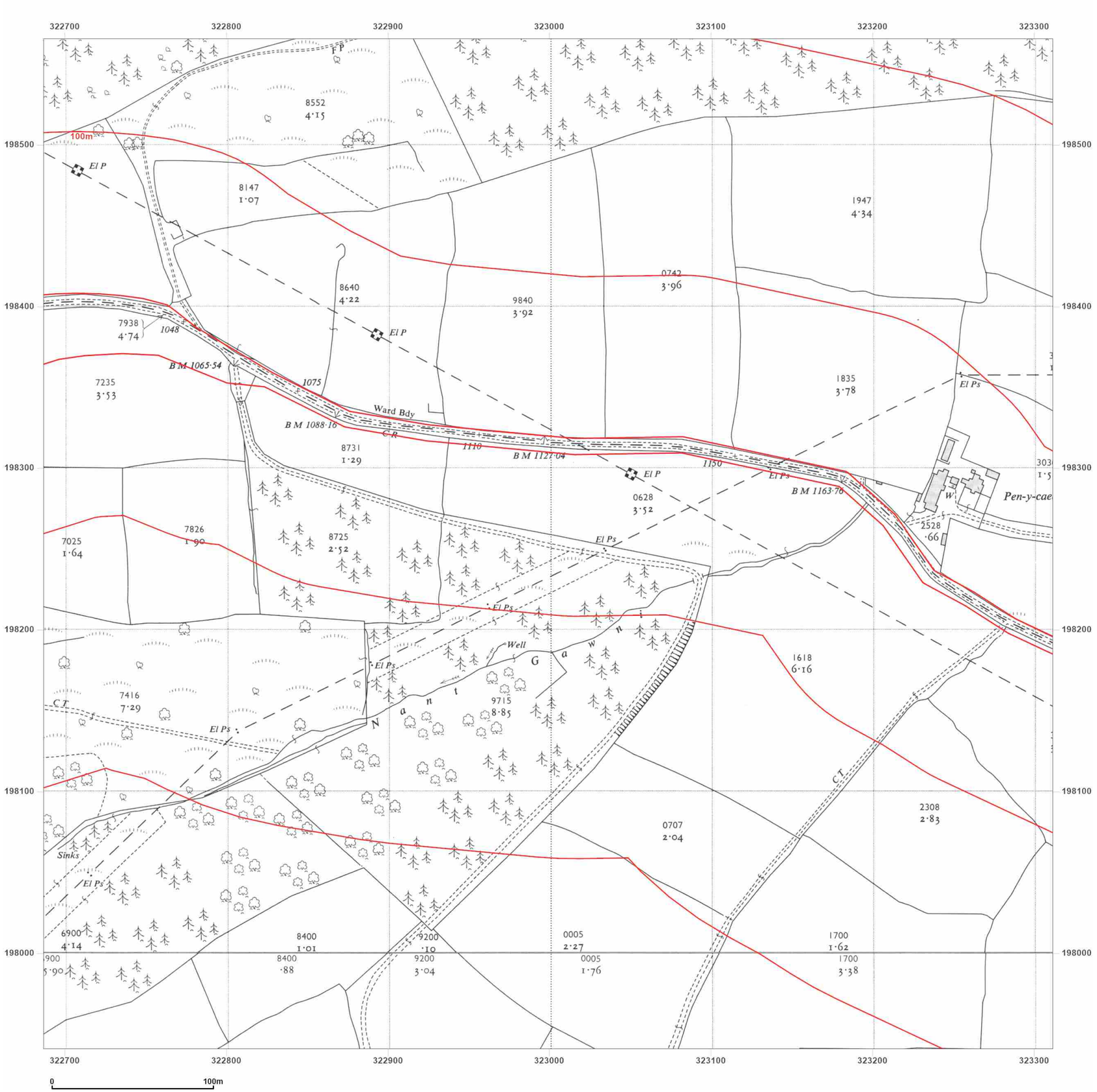
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
~~Edition N/A~~
Copyright 1962
Levelled 1958

Surveyed 1961
~~Revised 1961~~
Edition 1962
Copyright 1962
Levelled 1958

Groundsure INSIGHTS

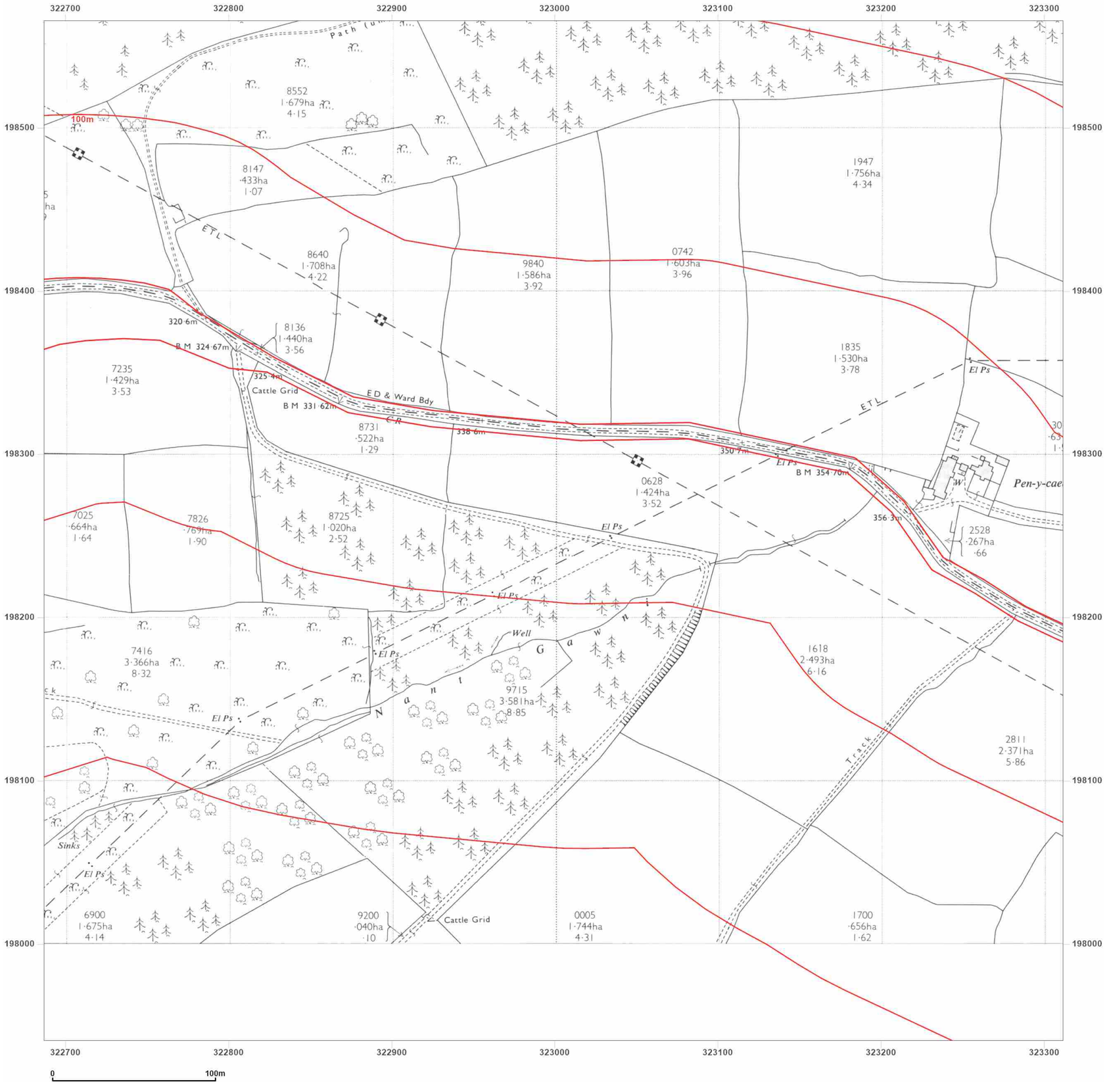
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: National Grid

Map date: **1976**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1965

Groundsure INSIGHTS

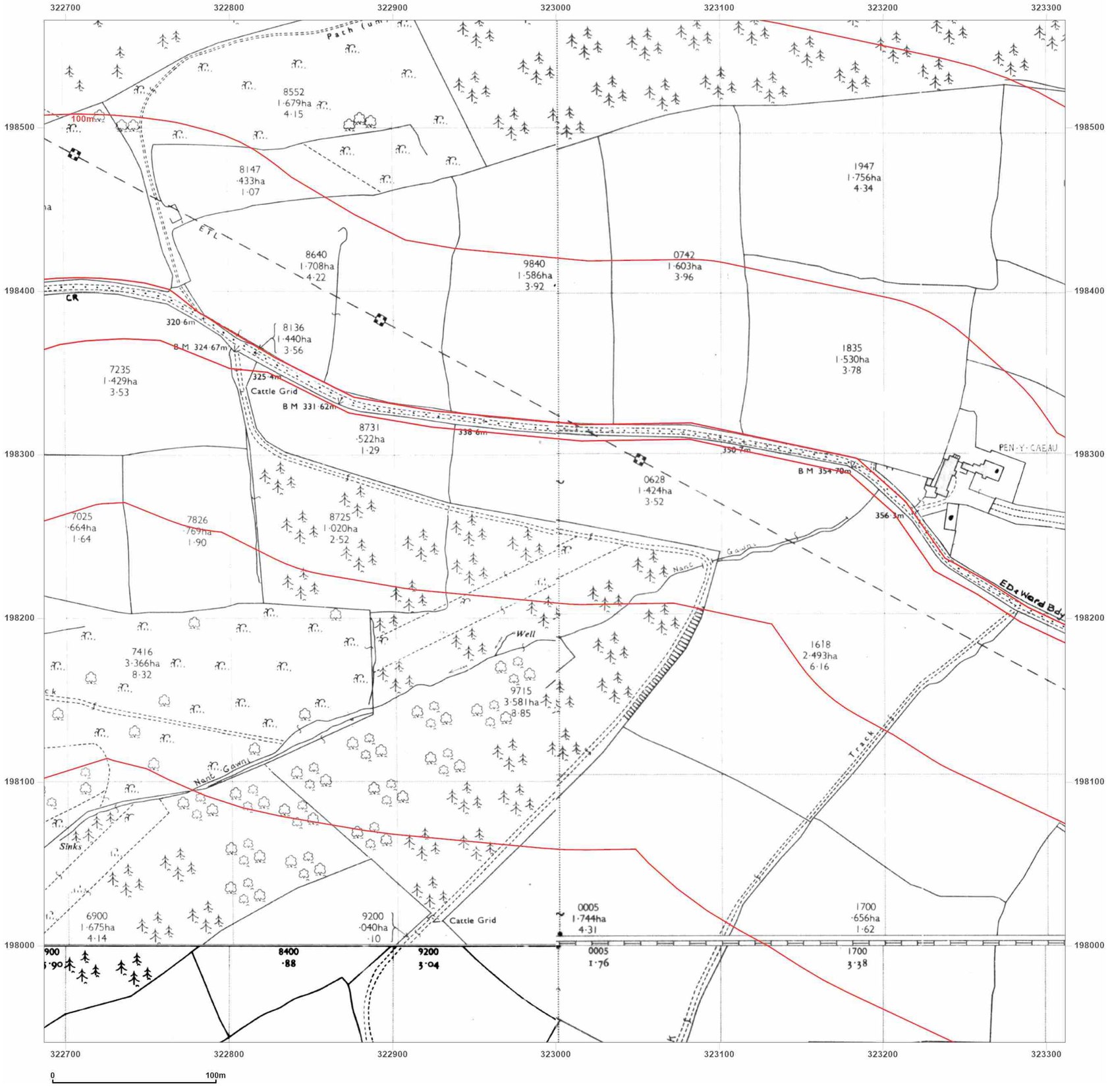
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: National Grid

Map date: **1989**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1965 Revised 1989 Edition N/A Copyright 1989 Levelled 1965			Surveyed 1989 Revised 1989 Edition N/A Copyright 1989 Levelled N/A
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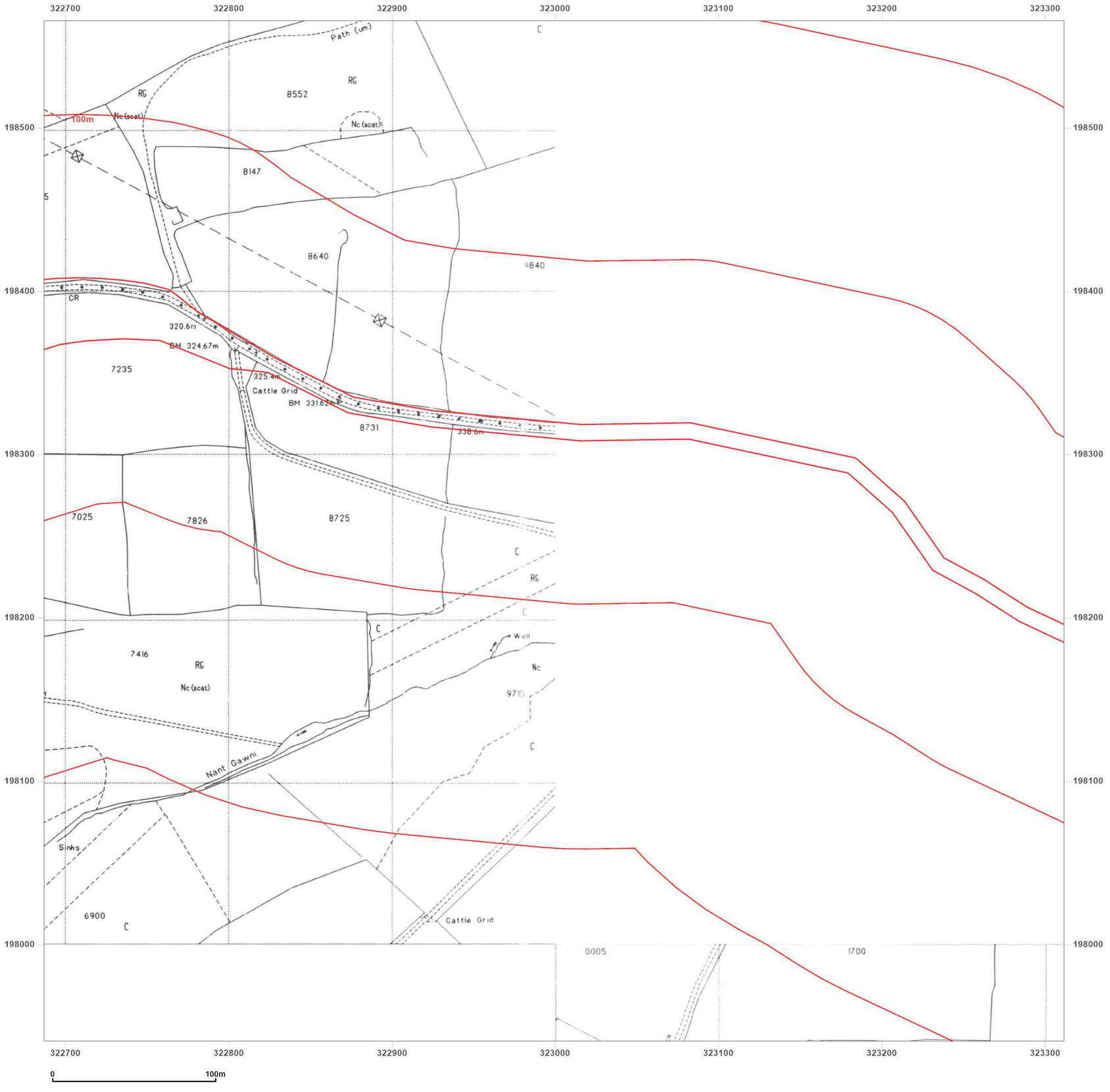
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Map legend available at:
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_2_7
Grid Ref: 322999, 198253

Map Name: National Grid

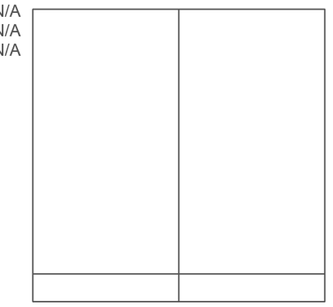
Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

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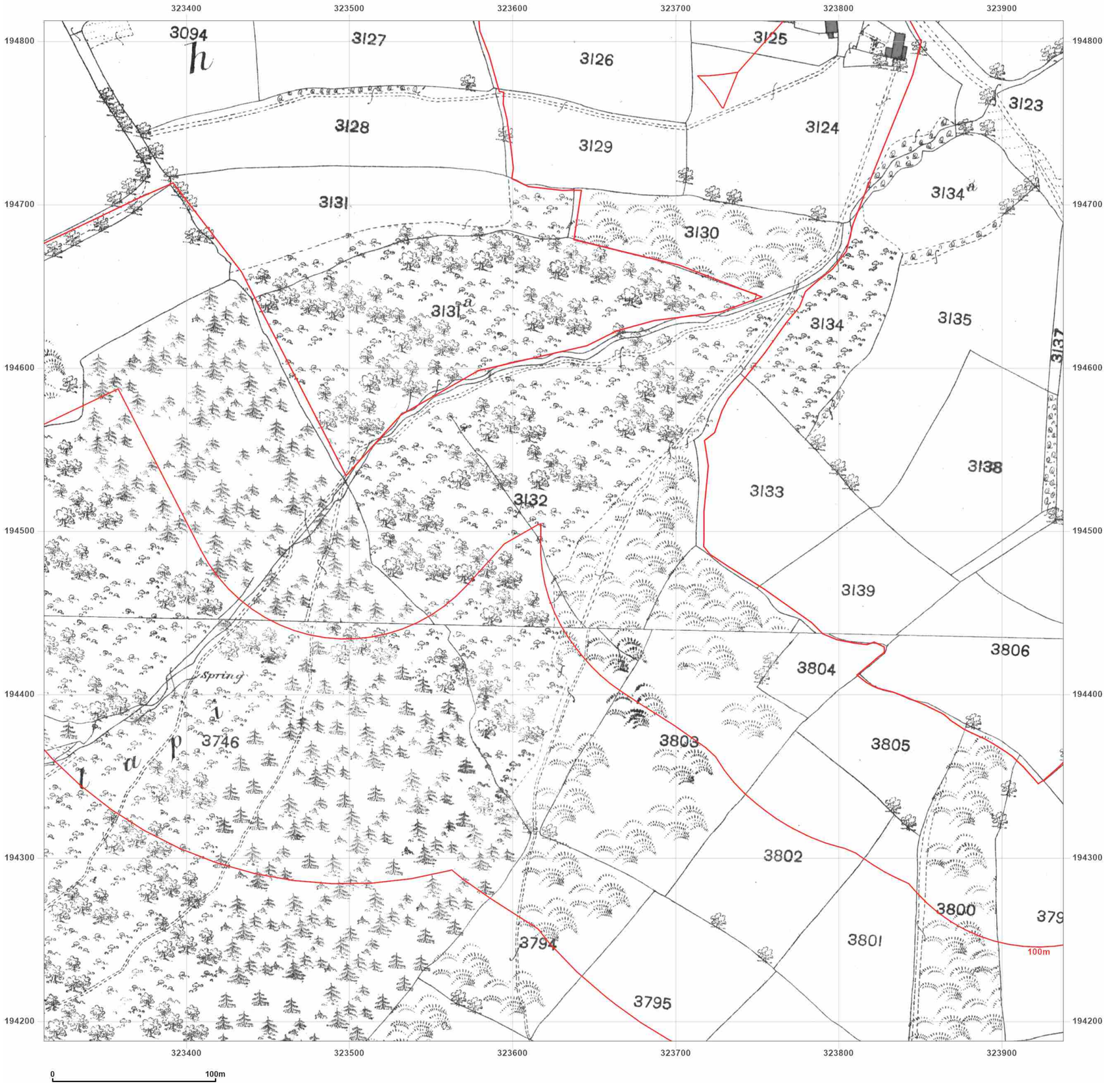
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Production date: 12 September 2025

Map legend available at:
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_1
Grid Ref: 323625, 194500

Map Name: County Series

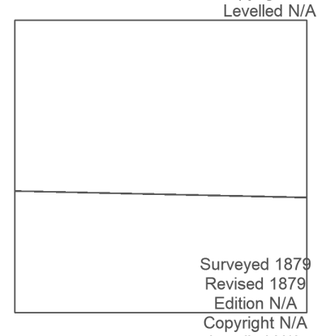
Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A



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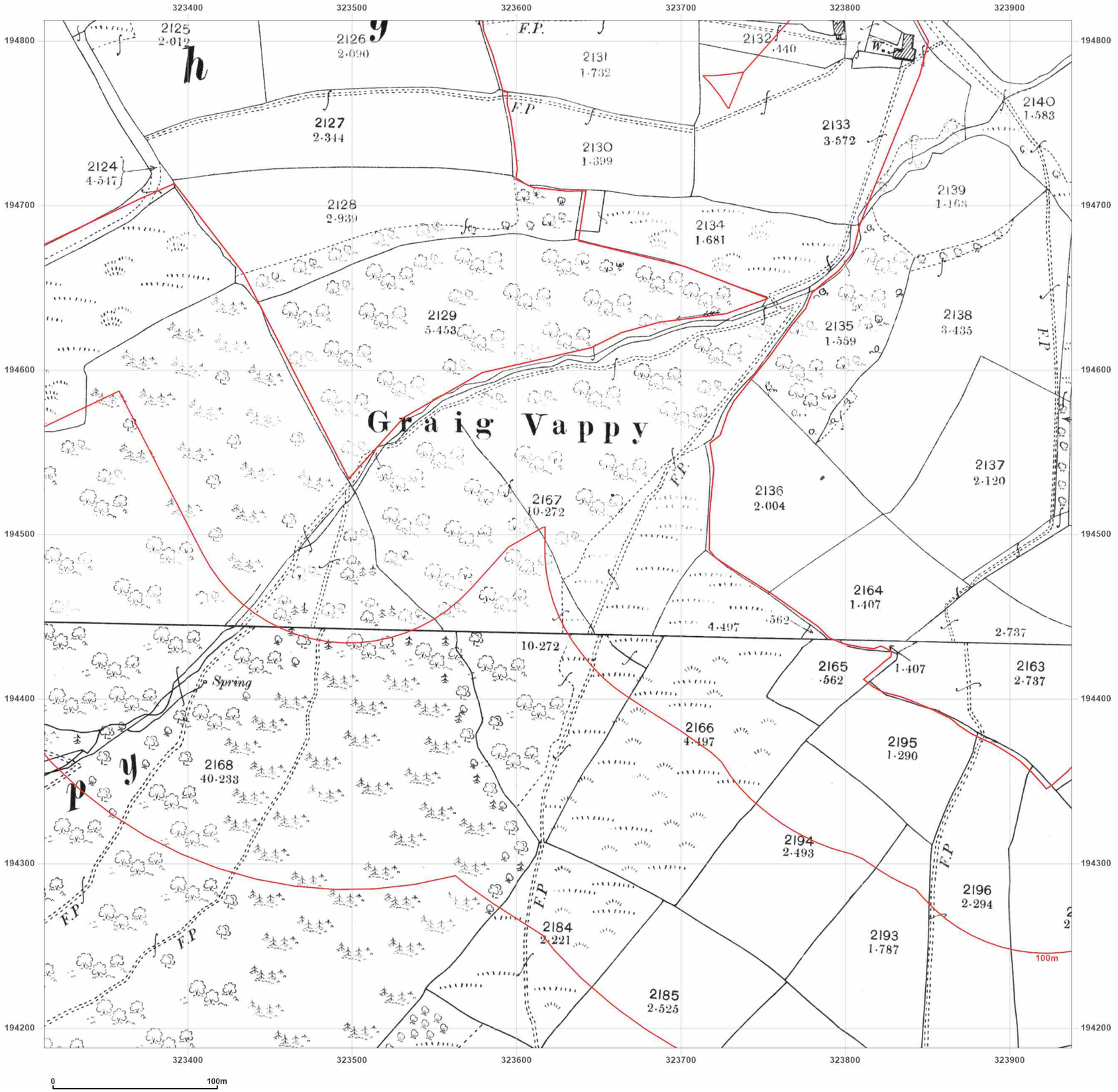
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_1
Grid Ref: 323625, 194500

Map Name: County Series

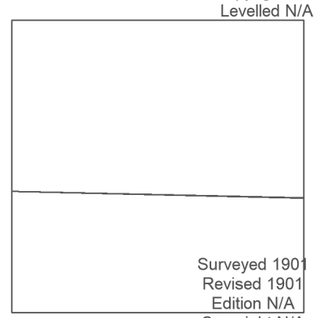
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

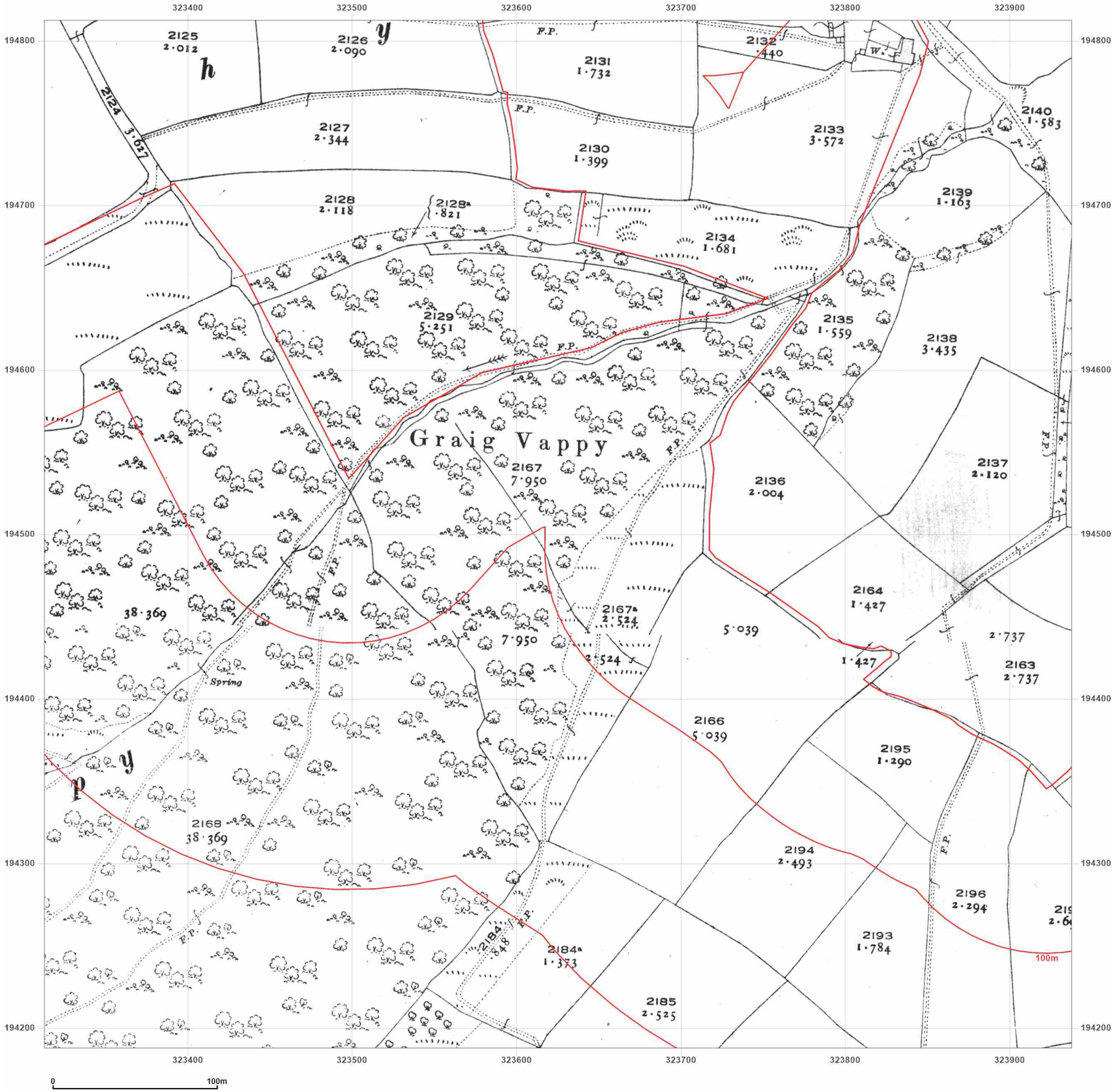
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_1
Grid Ref: 323625, 194500

Map Name: County Series

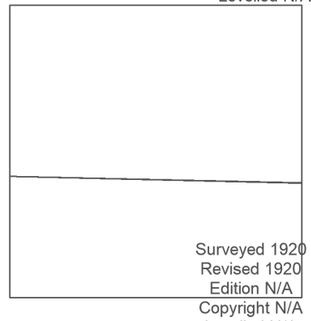
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

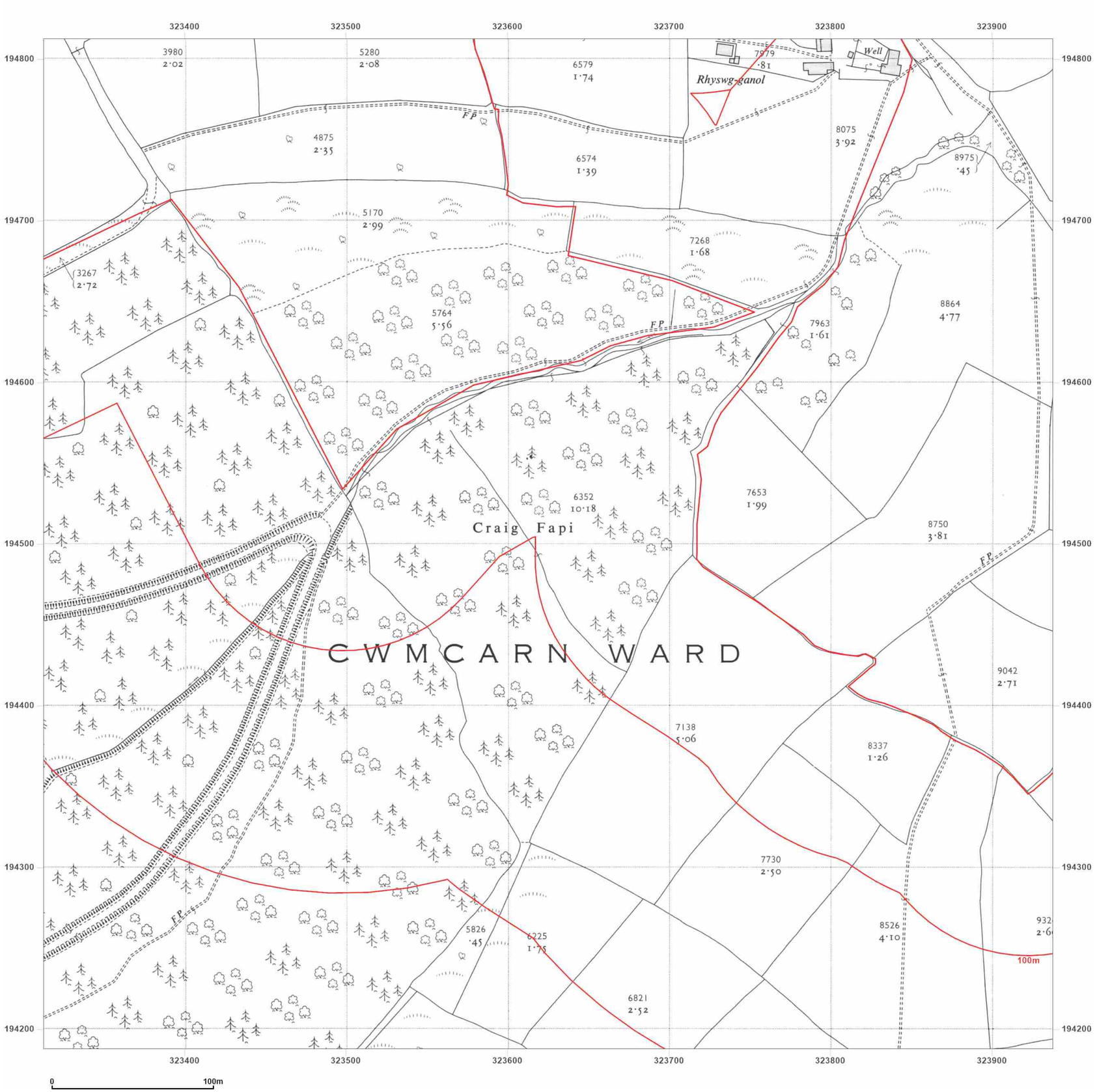
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_1
Grid Ref: 323625, 194500

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_1
Grid Ref: 323625, 194500

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

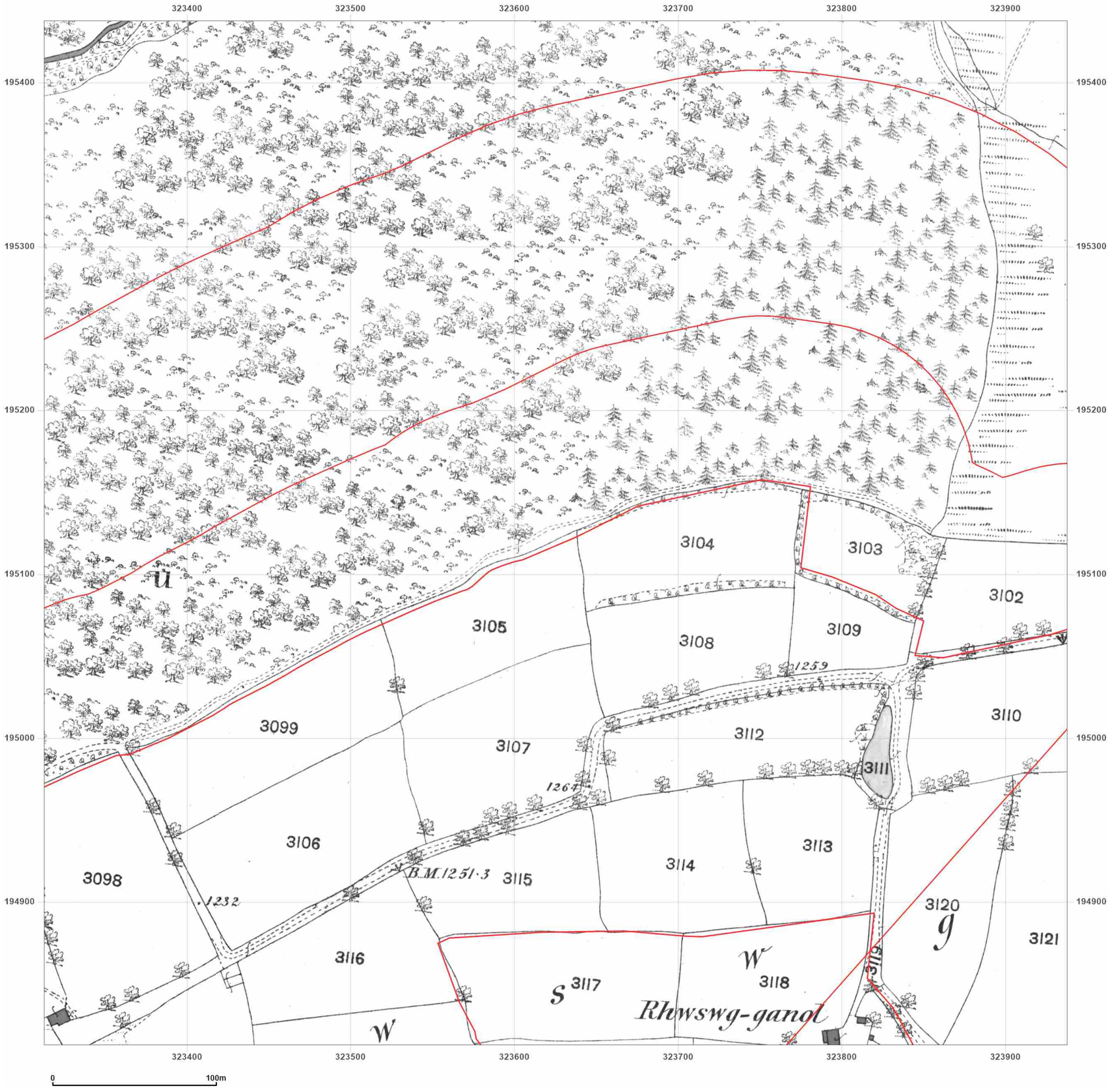
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_2
Grid Ref: 323625, 195125

Map Name: County Series

Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

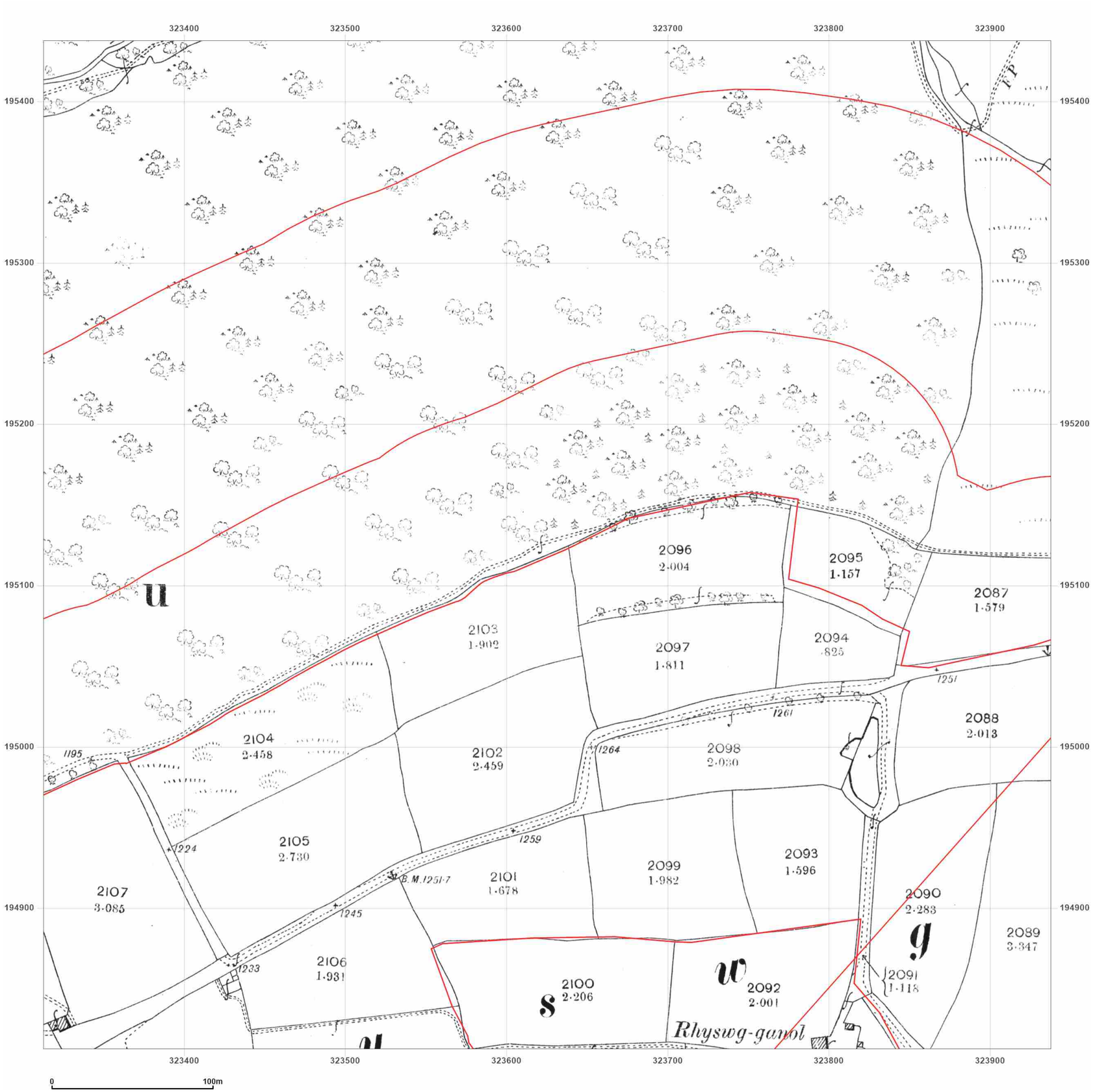
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_2
Grid Ref: 323625, 195125

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

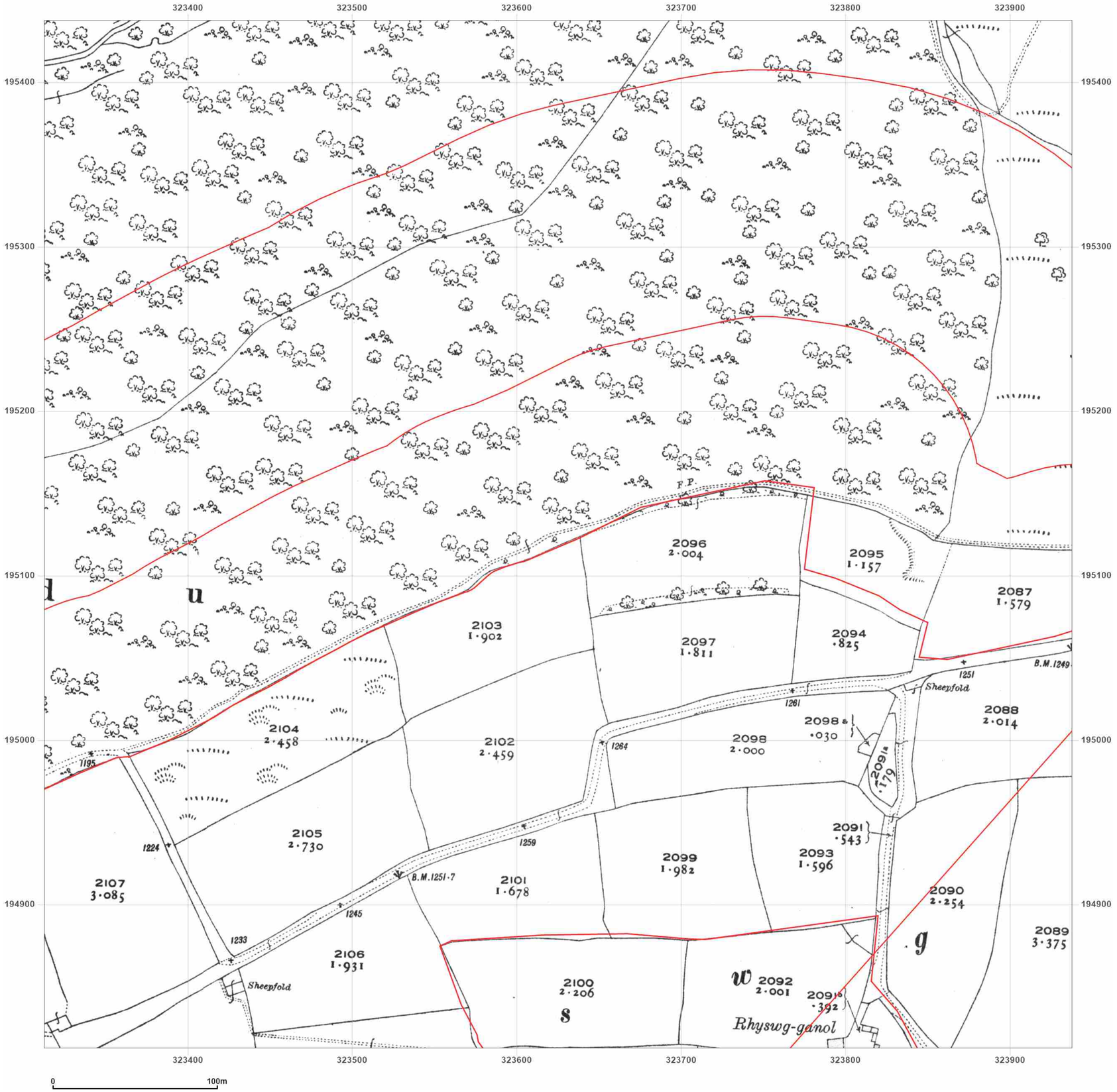
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_2
Grid Ref: 323625, 195125

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_2
Grid Ref: 323625, 195125

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962
Revised 1962
Edition 1962
Copyright 1962
Levelled 1958

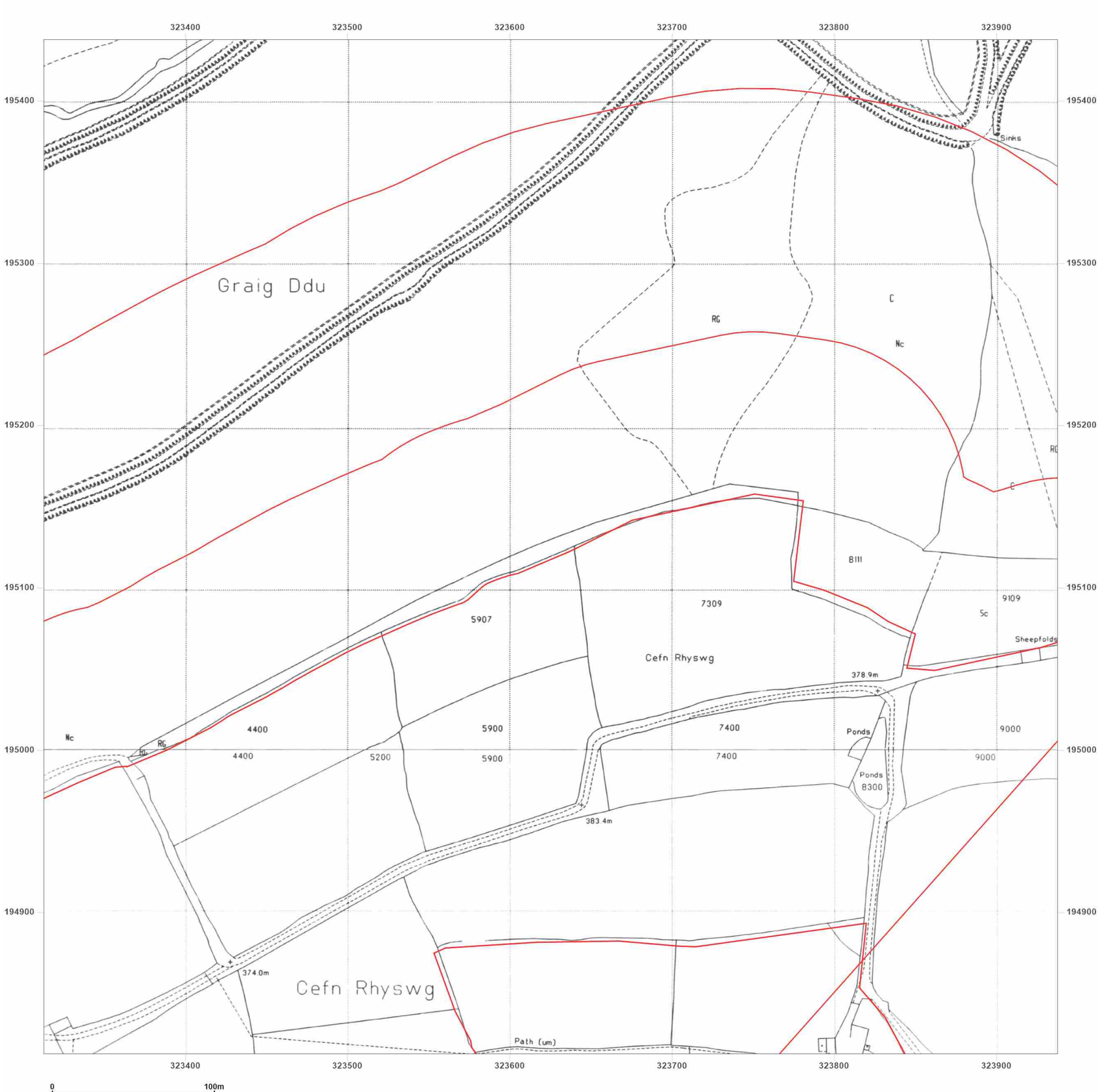
Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_2
Grid Ref: 323625, 195125

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

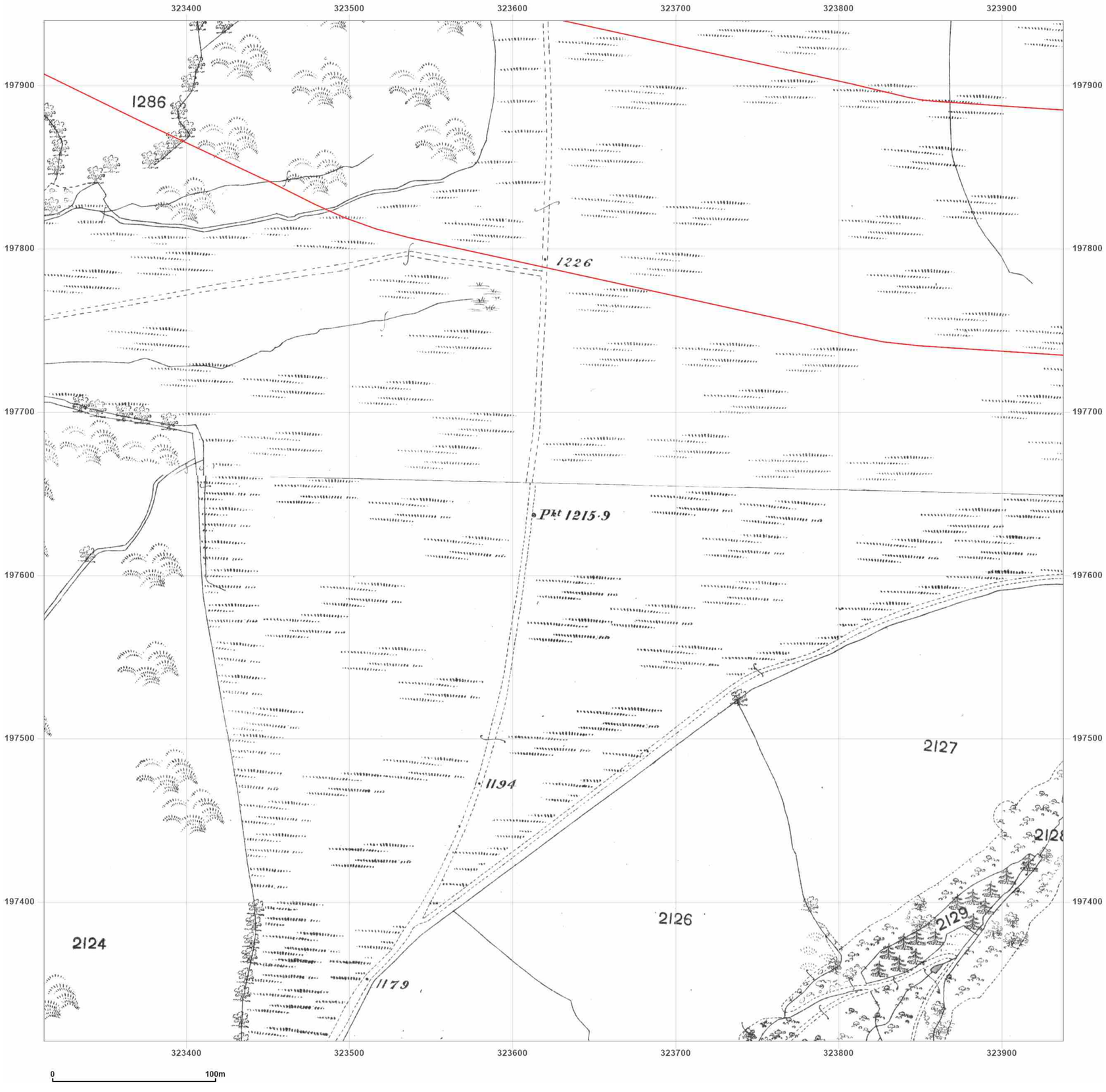
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_6
Grid Ref: 323625, 197627

Map Name: County Series

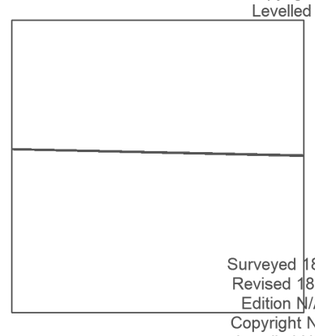
Map date: **1879-1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

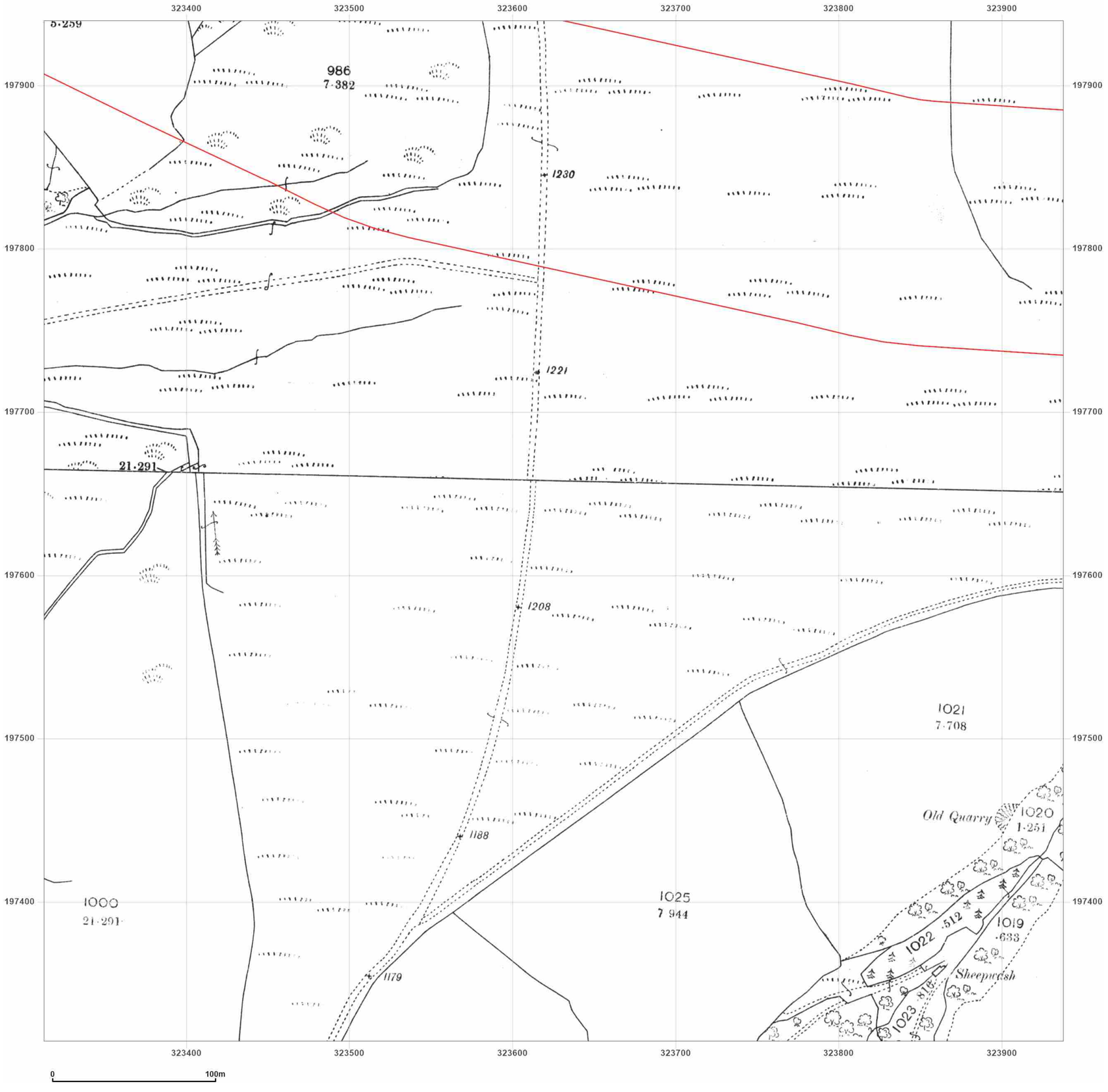
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_6
Grid Ref: 323625, 197627

Map Name: County Series

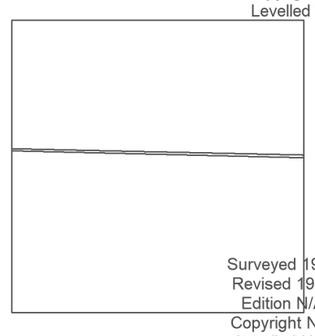
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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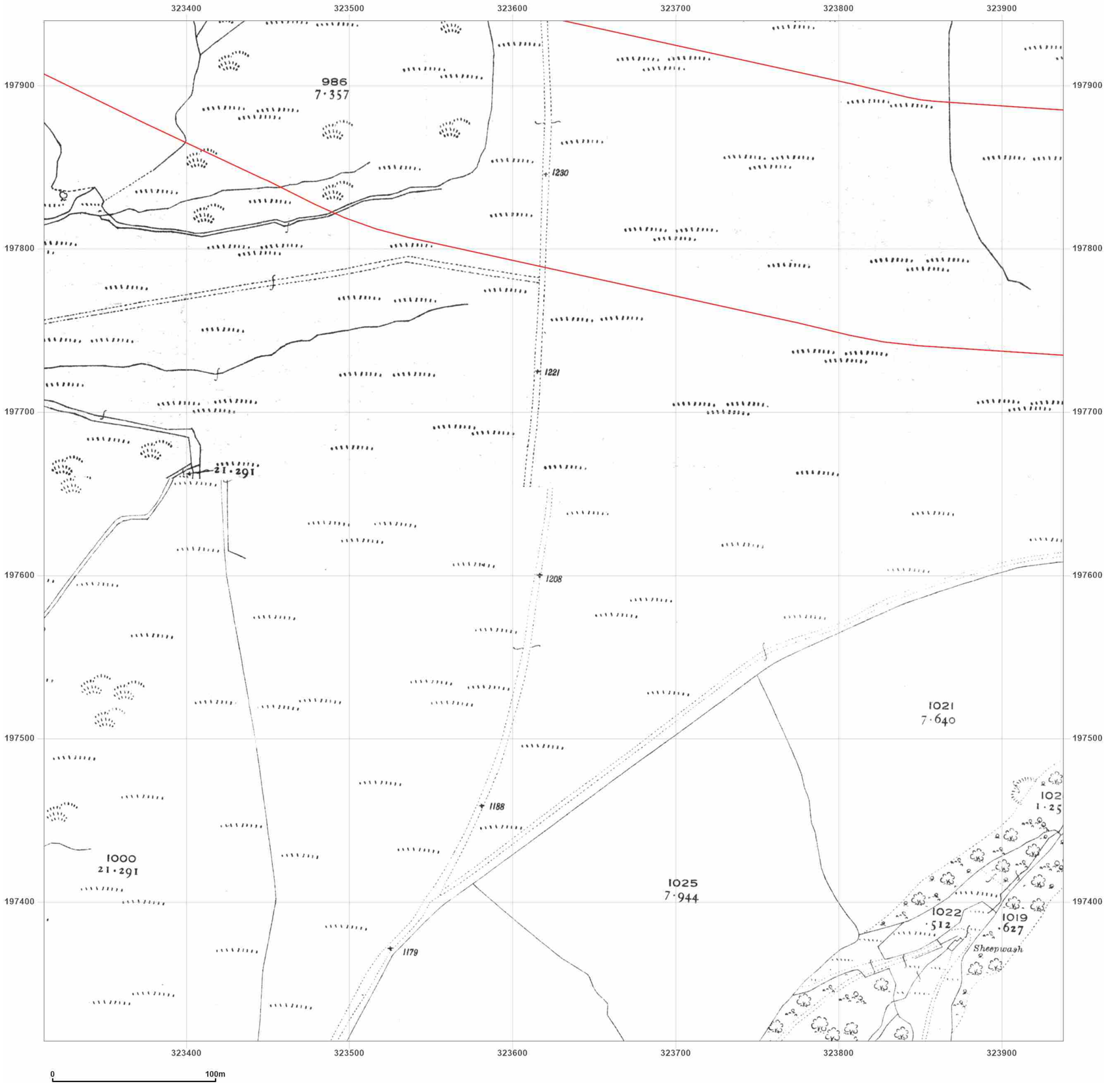
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_6
Grid Ref: 323625, 197627

Map Name: County Series

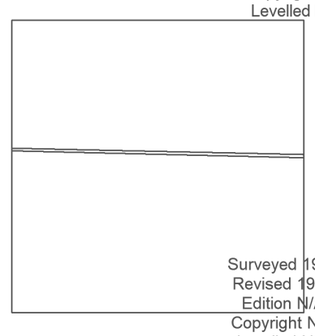
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

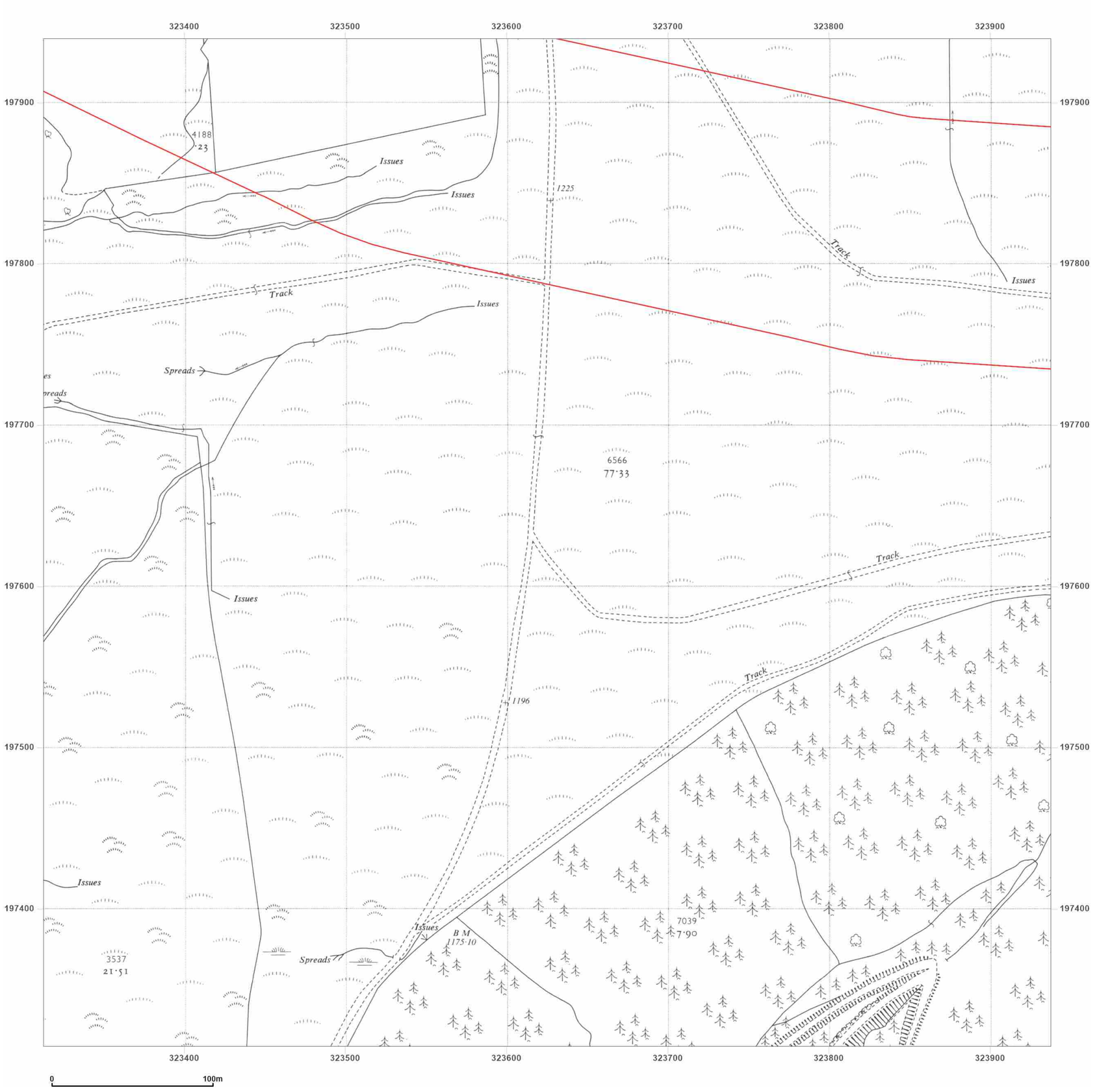
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_6
Grid Ref: 323625, 197627

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition 1962
Copyright 1962
Levelled 1958

Groundsure INSIGHTS

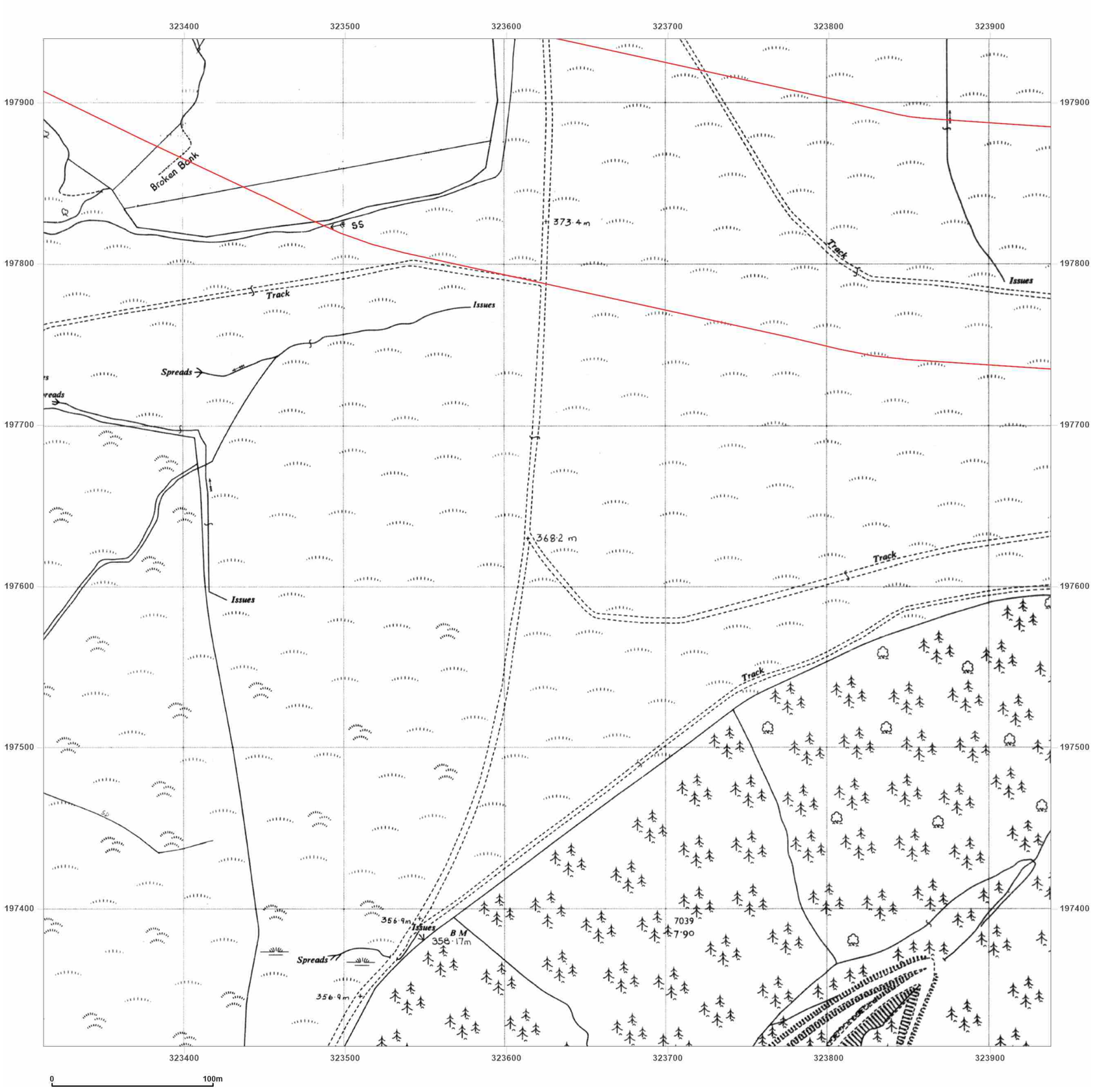
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_6
Grid Ref: 323625, 197627

Map Name: National Grid

Map date: **1989**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1965
Revised 1989
Edition N/A
Copyright 1989
Levelled 1965

Groundsure INSIGHTS

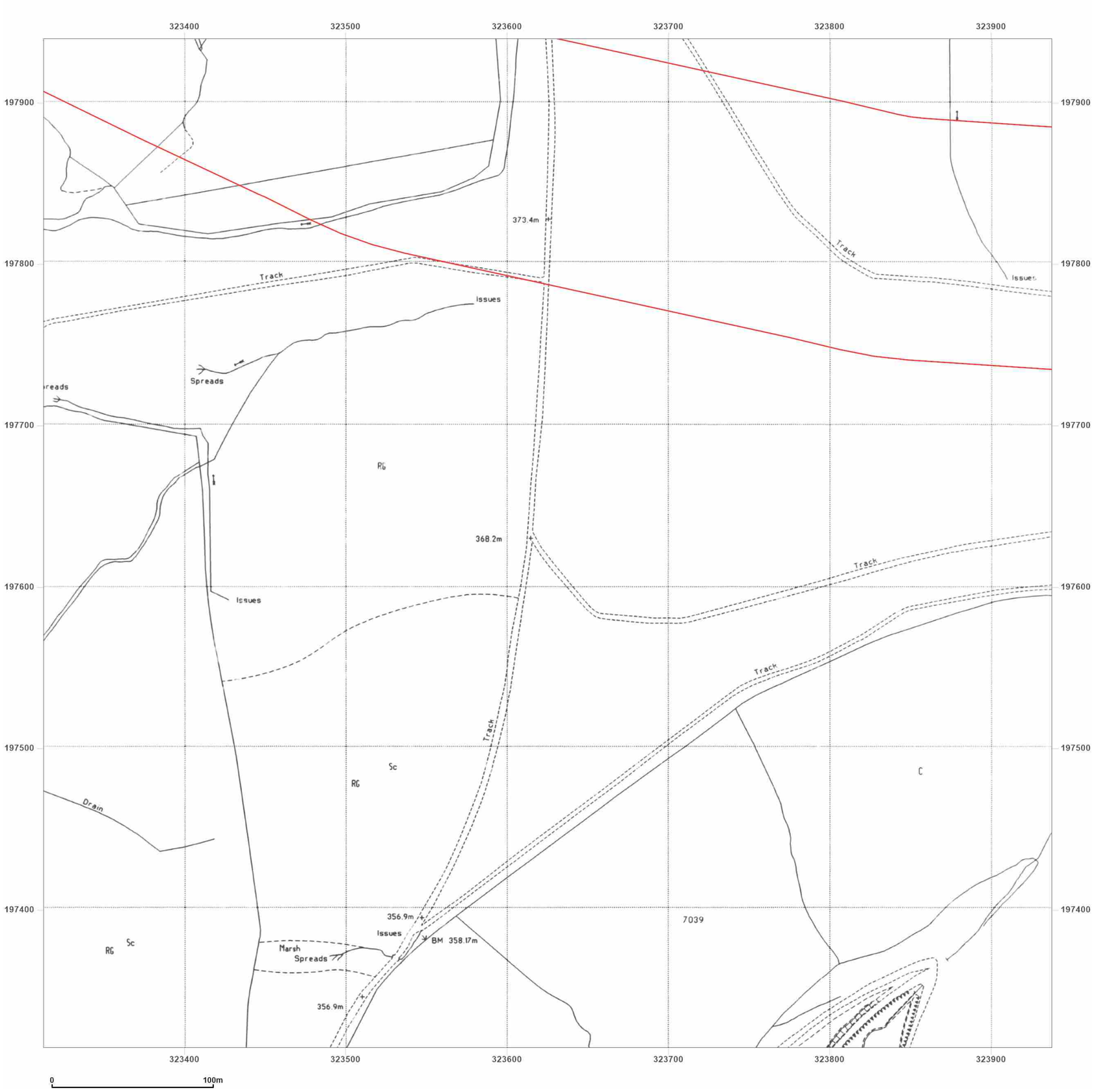
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_6
Grid Ref: 323625, 197627

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

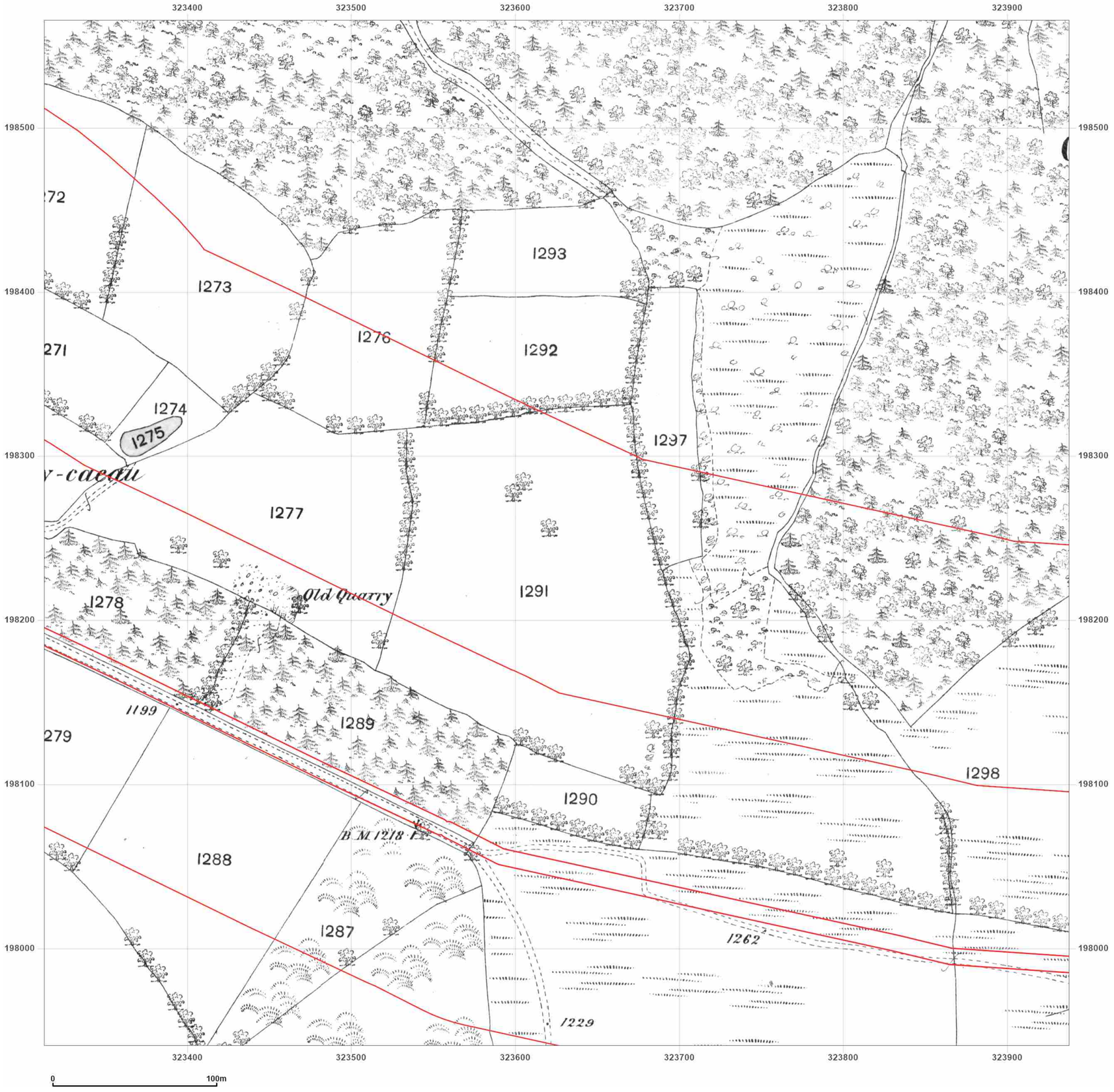
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

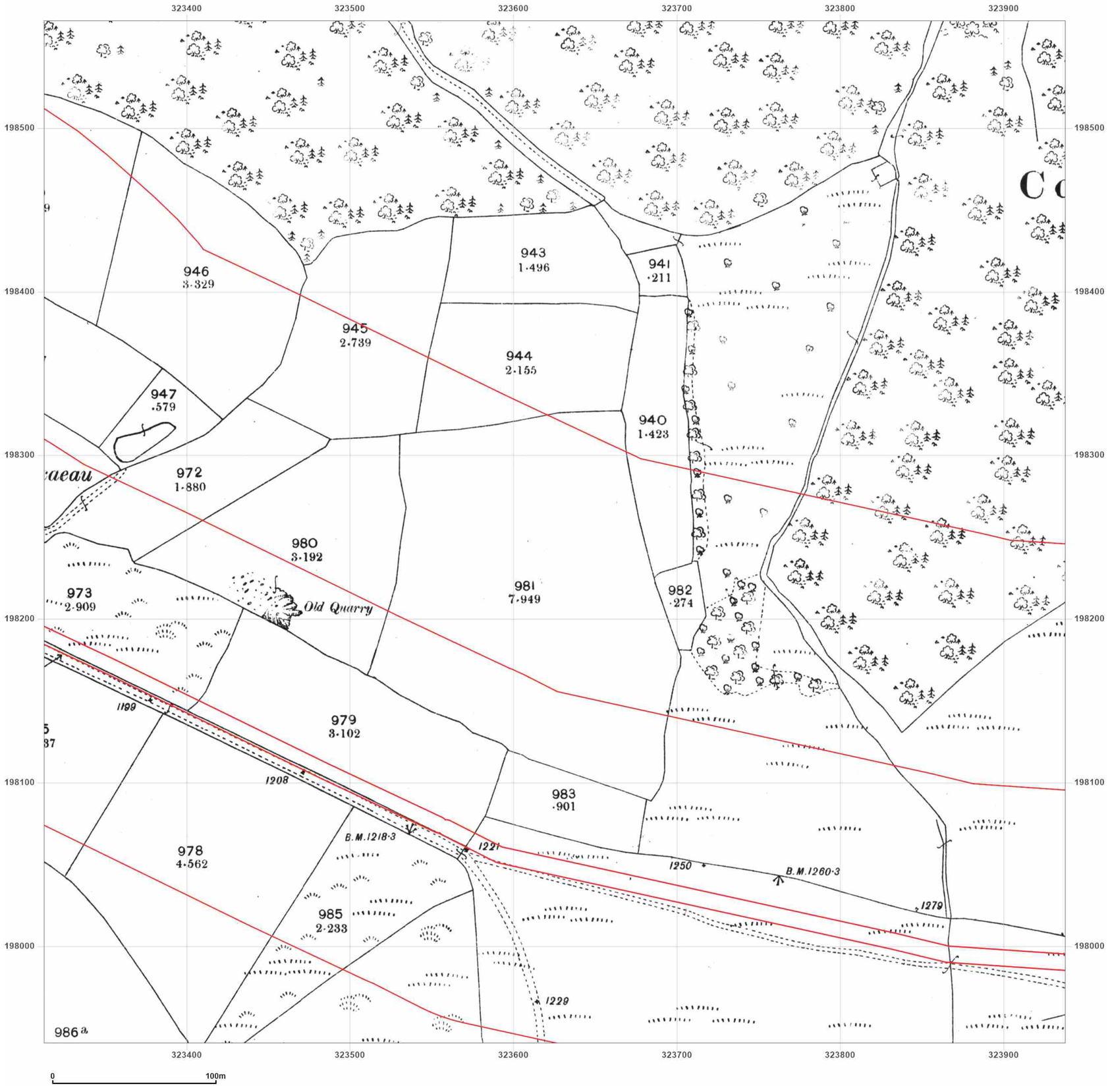
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

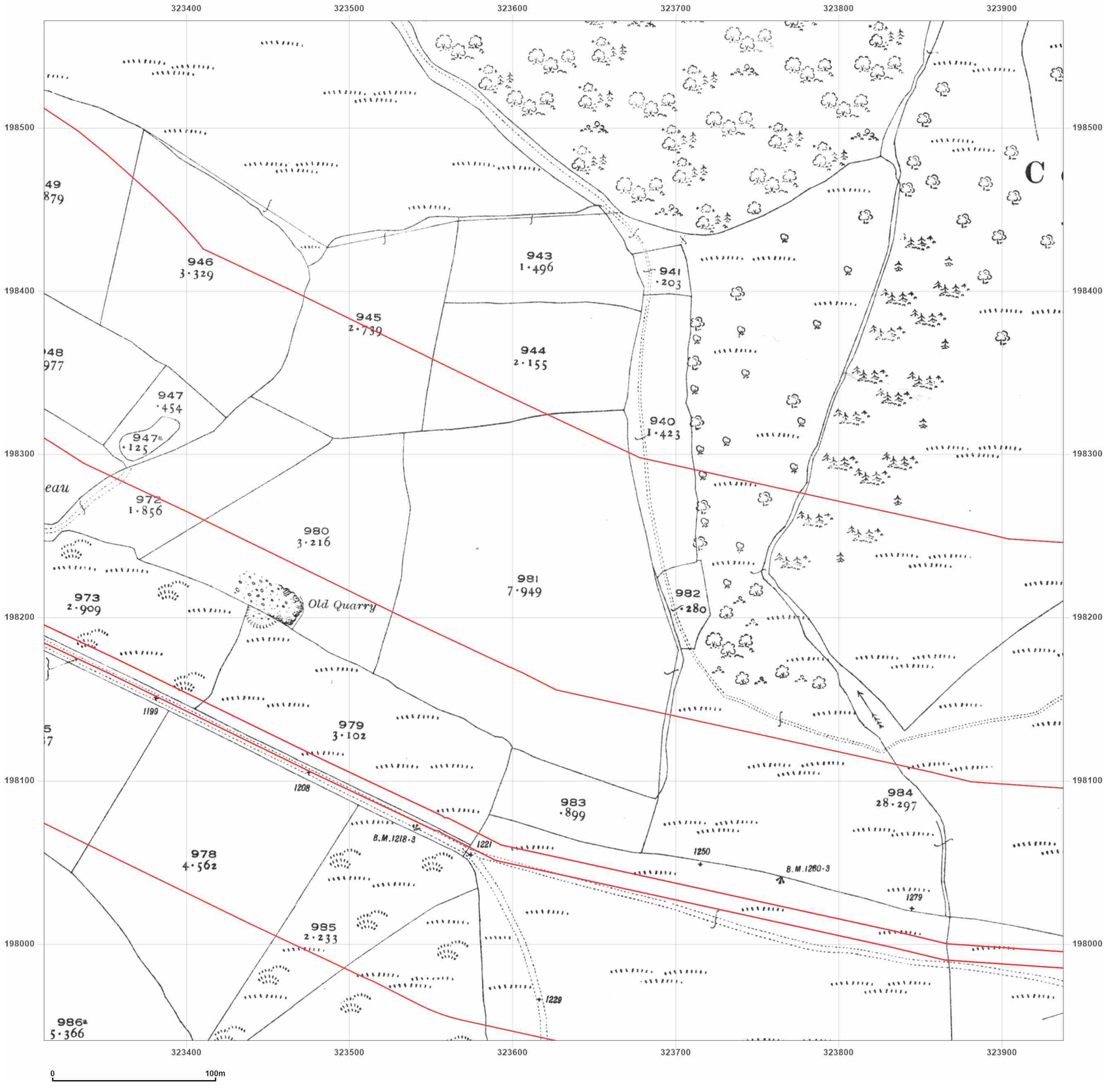
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Production date: 12 September 2025

Map legend available at:
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

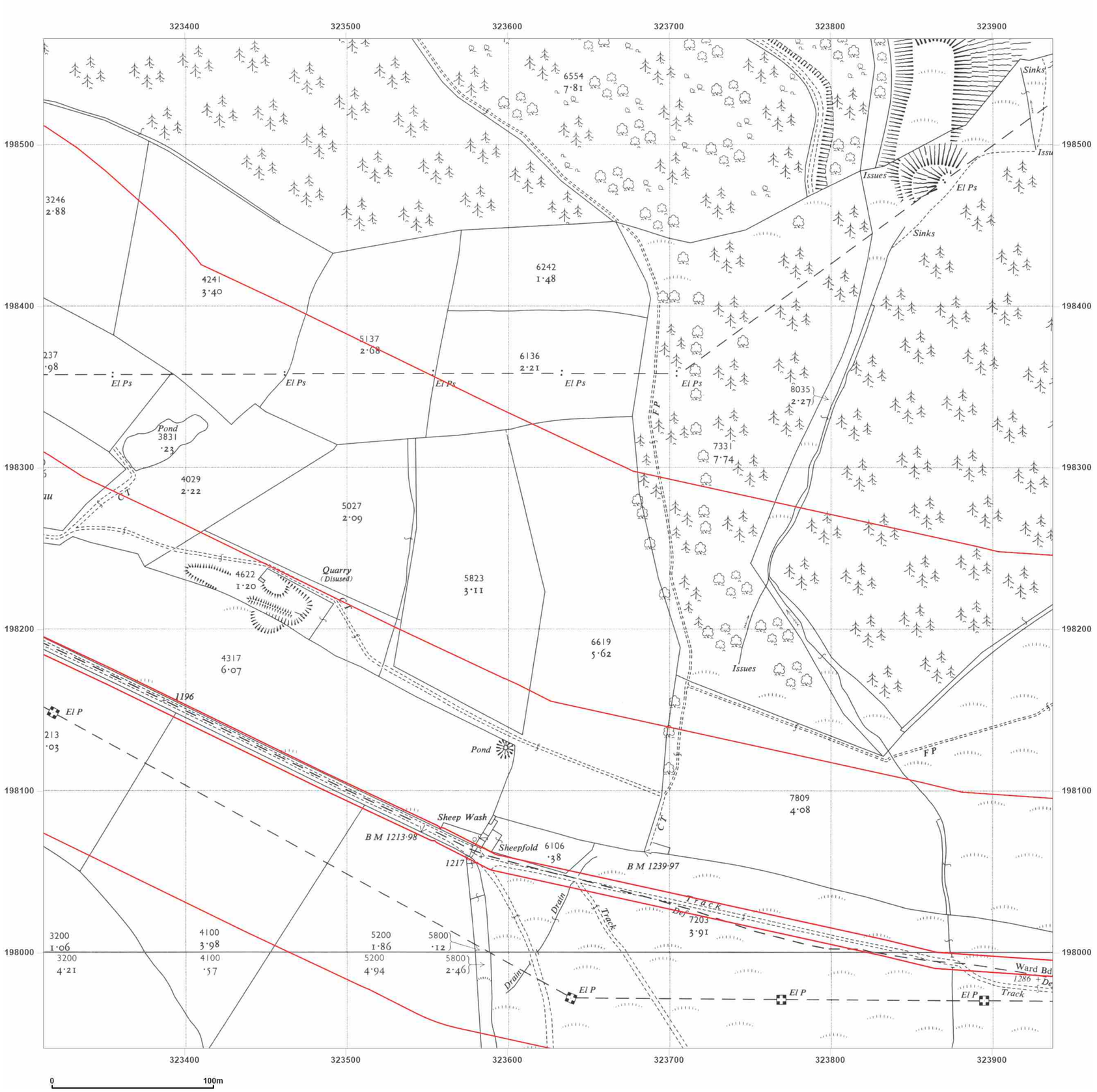
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

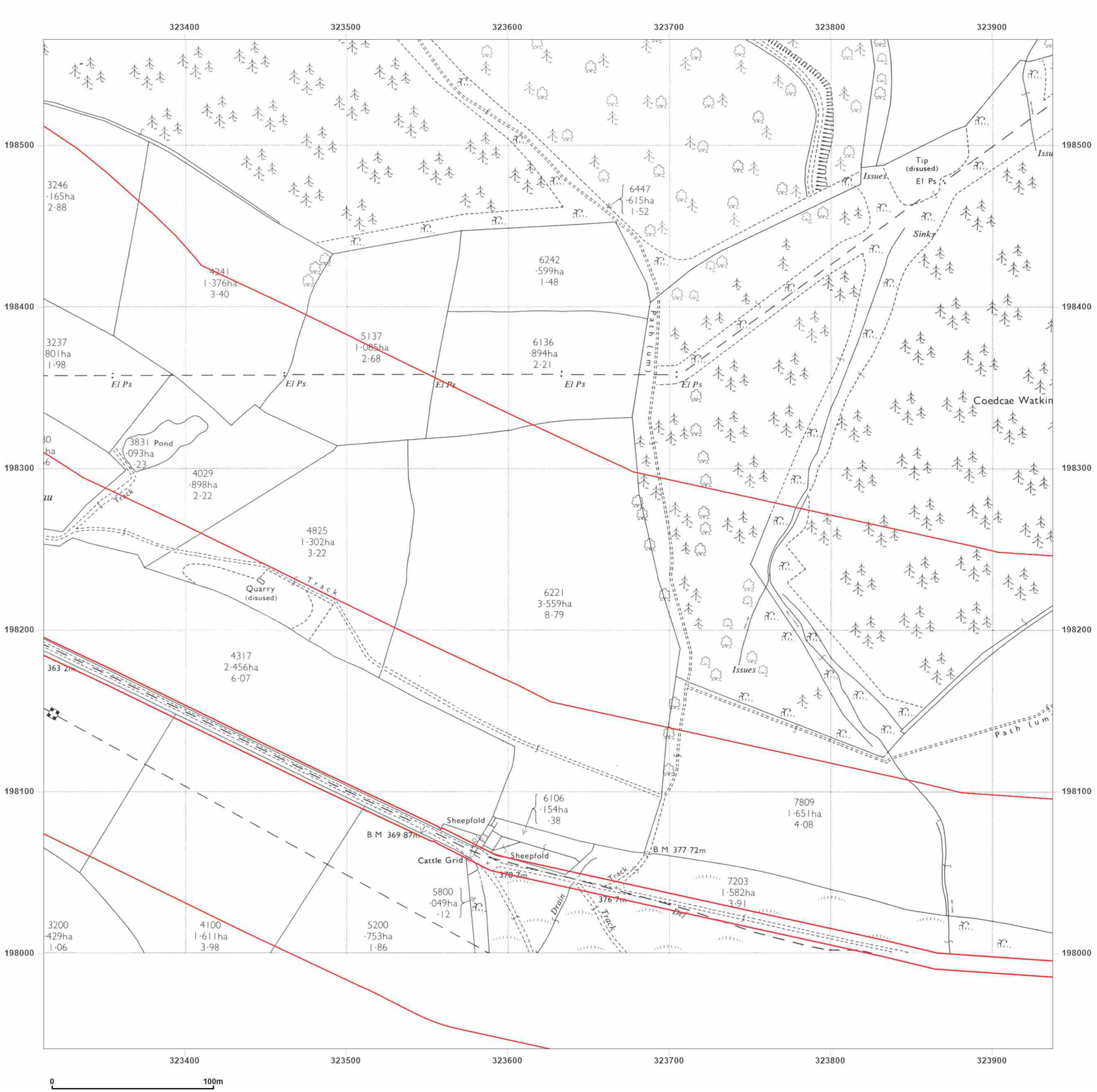
Surveyed 1961
Revised 1961
Edition 1962
Copyright 1962
Levelled 1958

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: National Grid

Map date: **1976**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1975
Revised 1975
Edition N/A
Copyright 1976
Levelled 1965

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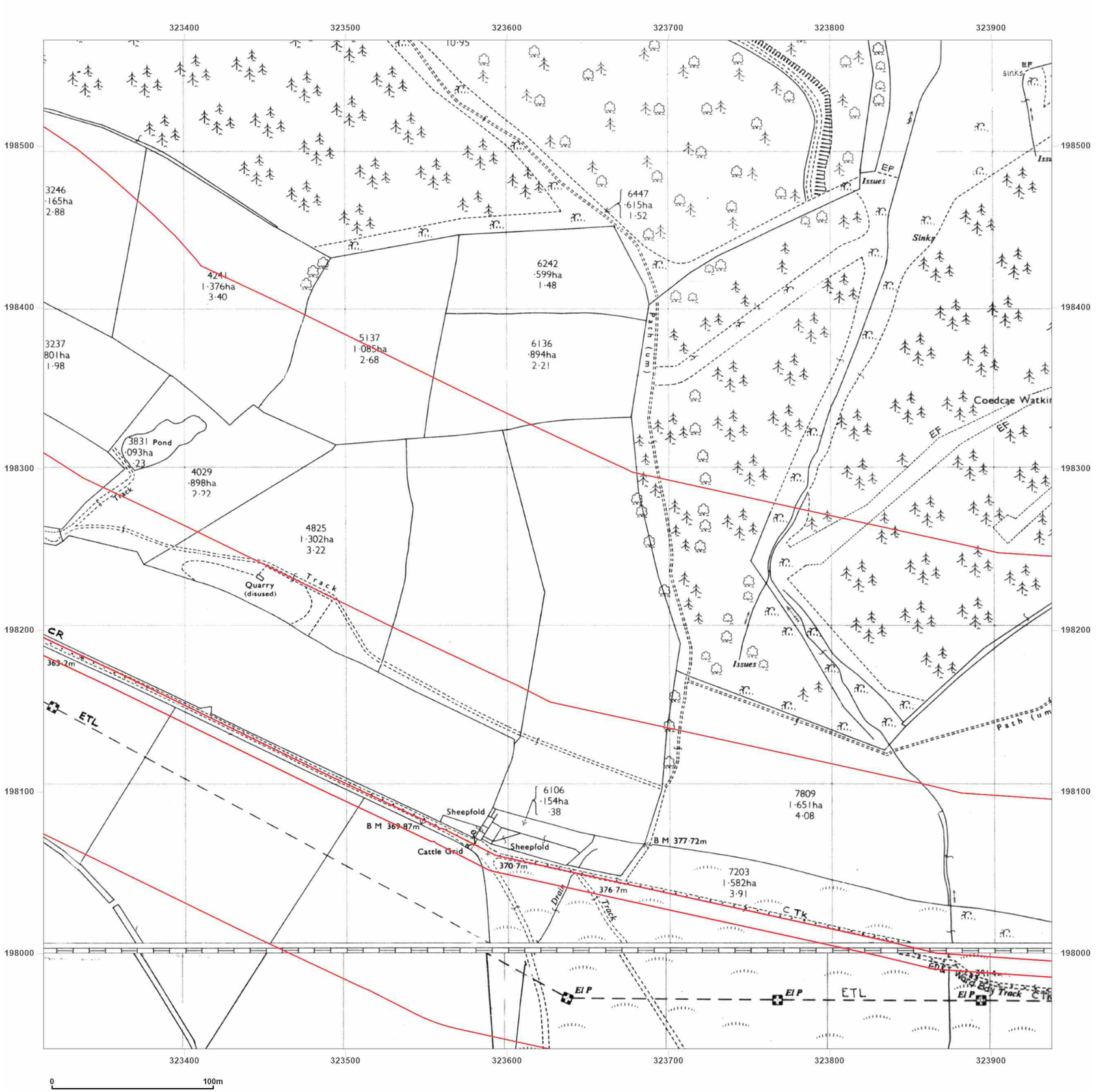
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: National Grid

Map date: **1989**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1989
Revised 1989
Edition N/A
Copyright 1989
Levelled N/A

Surveyed 1965
Revised 1989
Edition N/A
Copyright 1989
Levelled 1965

Groundsure INSIGHTS

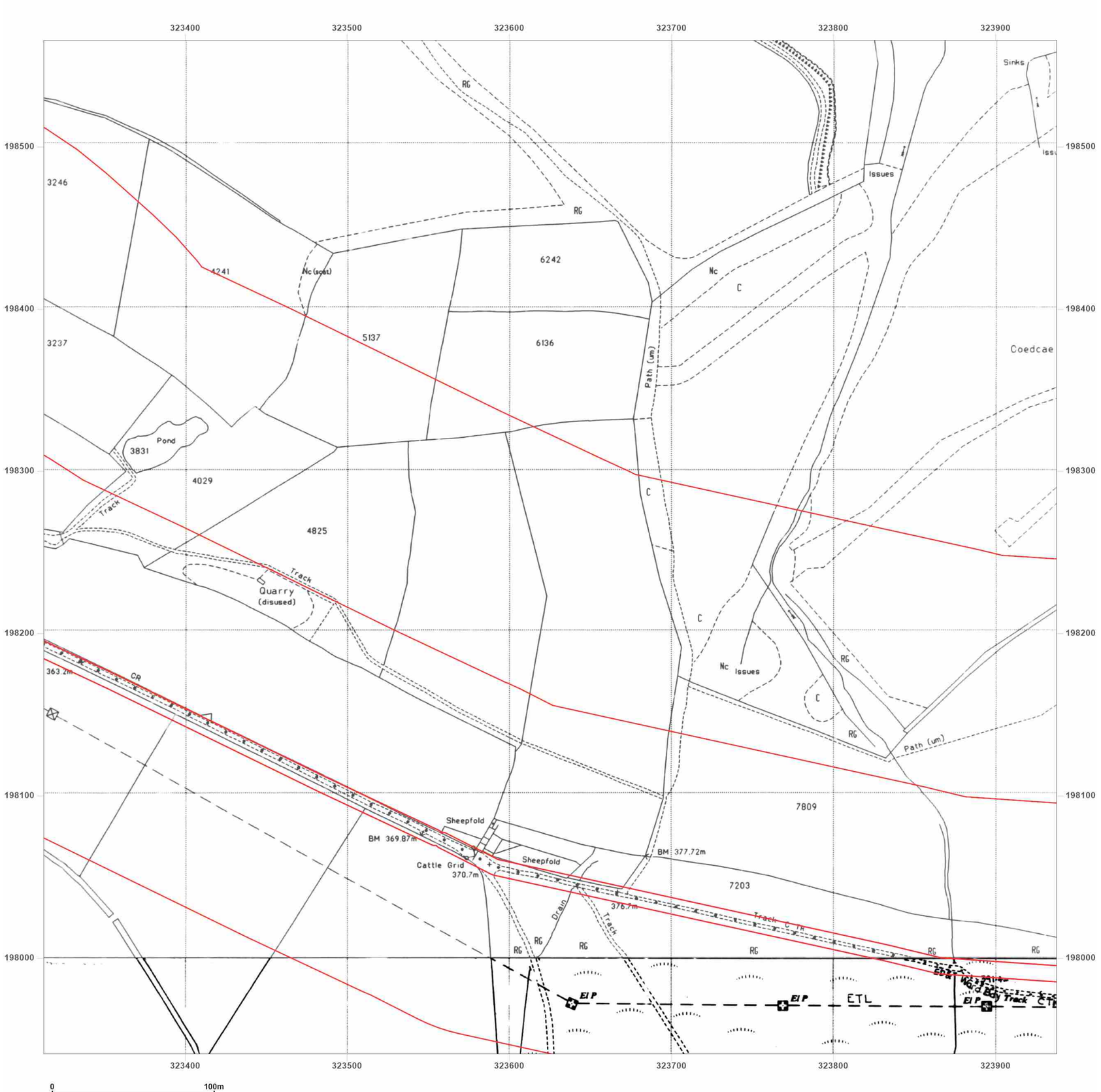
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_3_7
Grid Ref: 323625, 198253

Map Name: National Grid

Map date: **1989-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

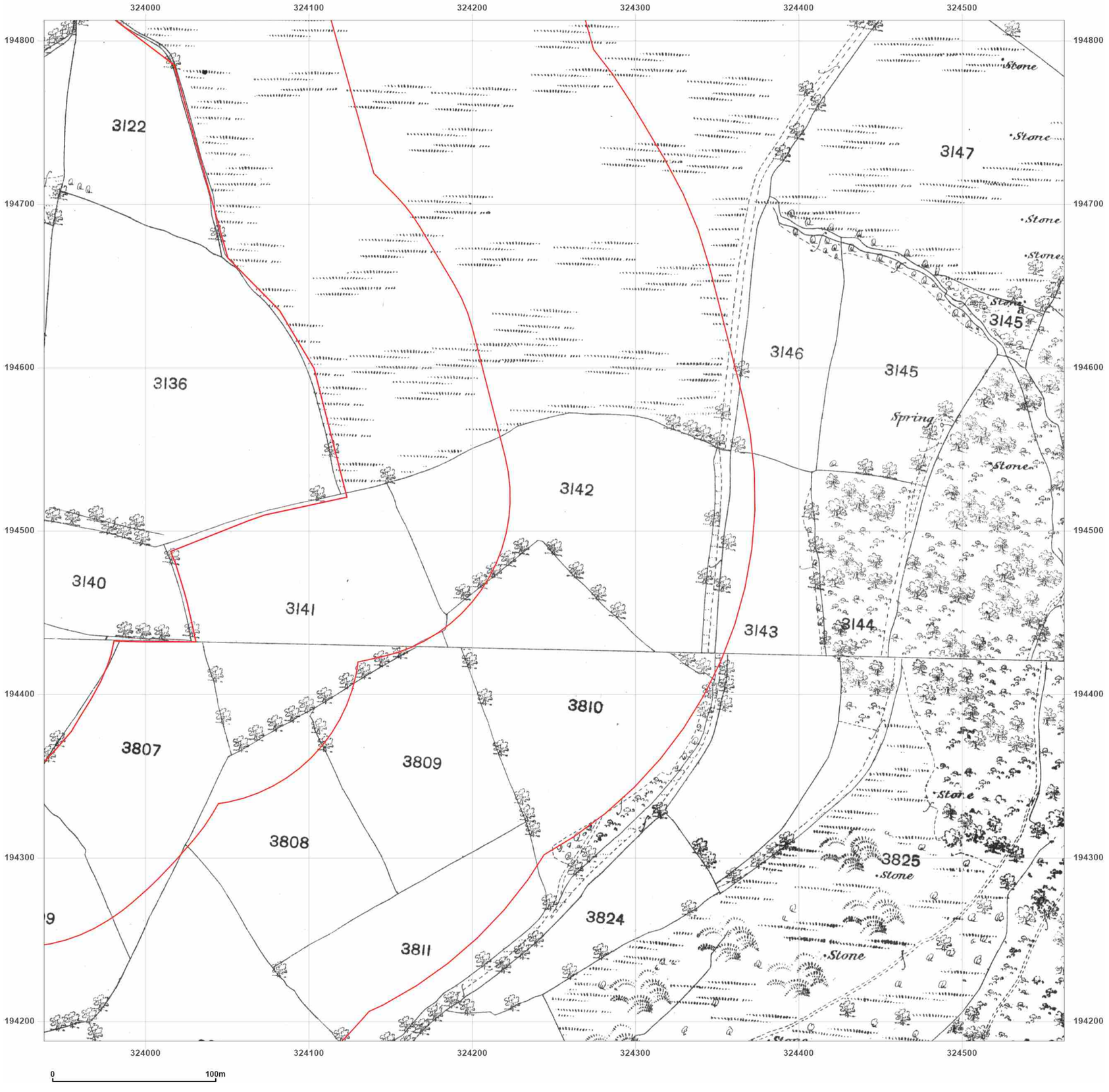
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_1
Grid Ref: 324250, 194500

Map Name: County Series

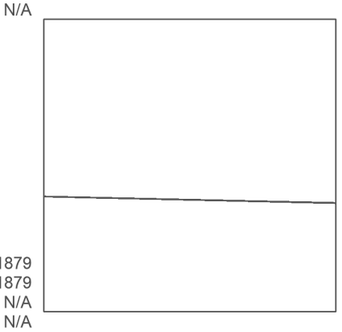
Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

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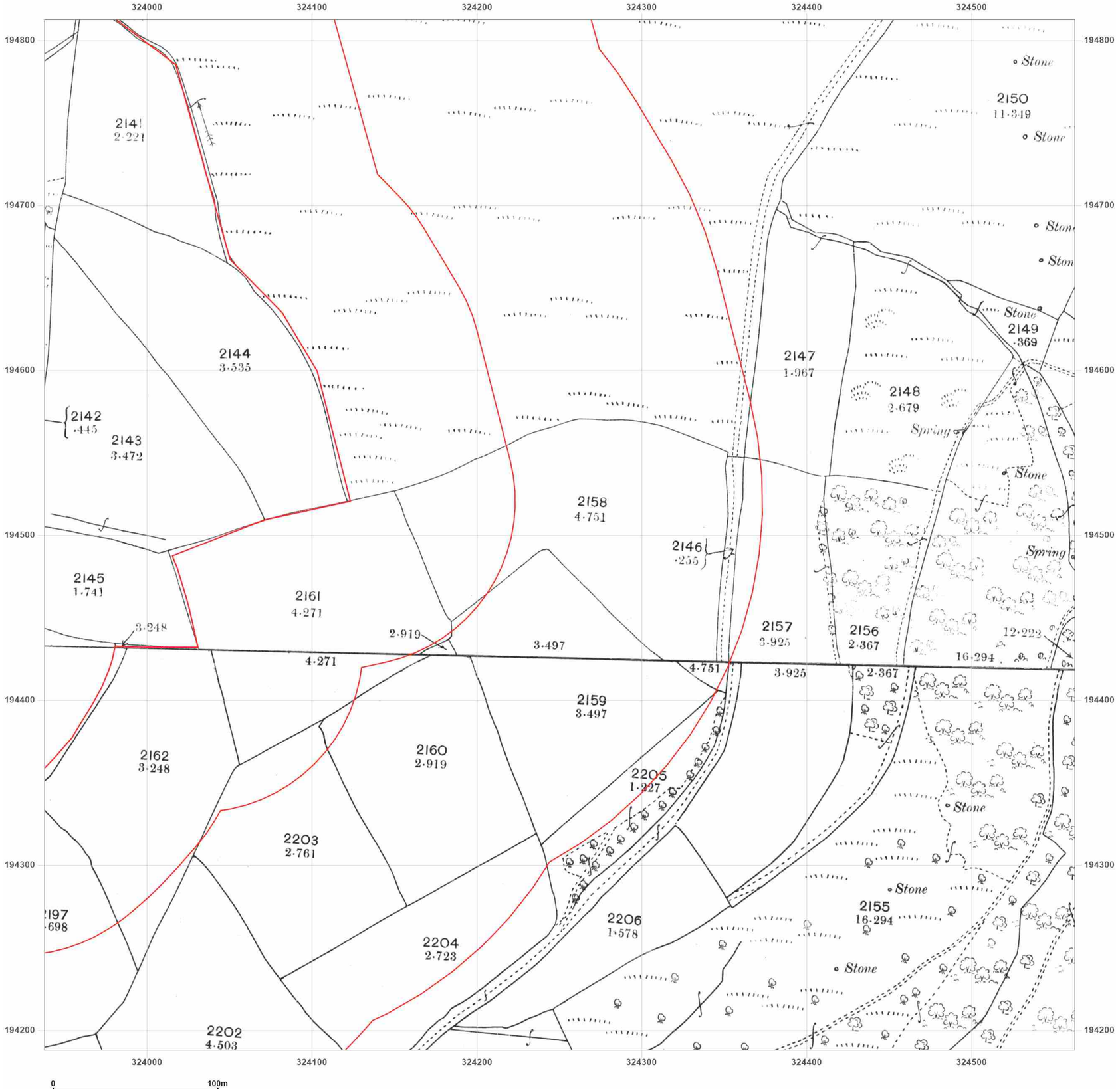
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_1
Grid Ref: 324250, 194500

Map Name: County Series

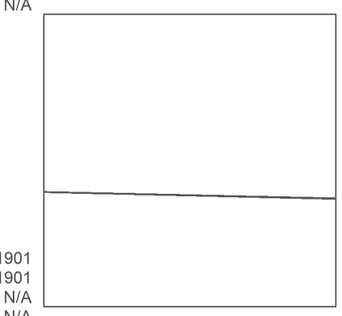
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

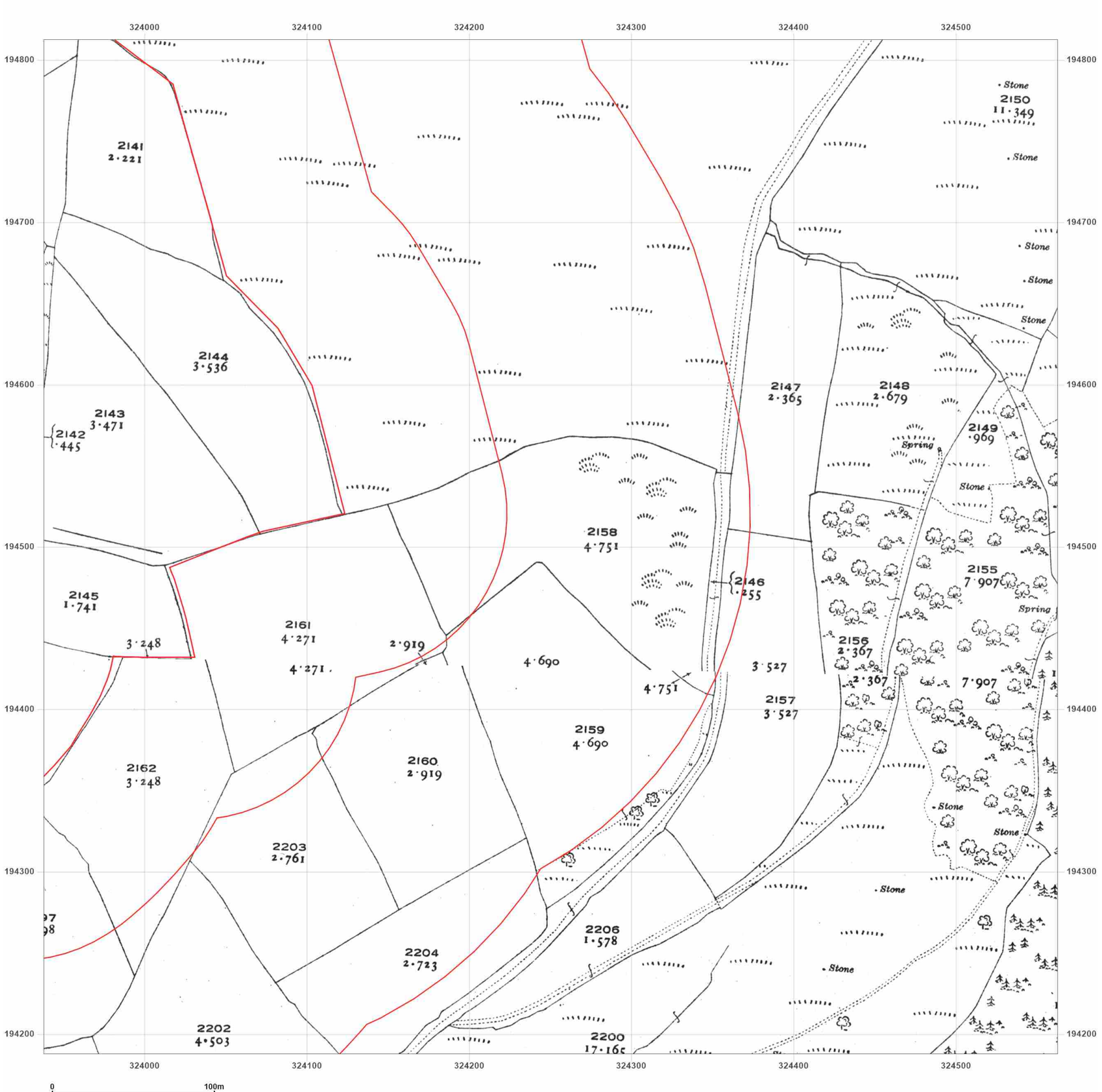
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_1
Grid Ref: 324250, 194500

Map Name: County Series

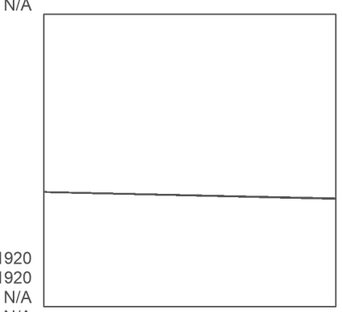
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

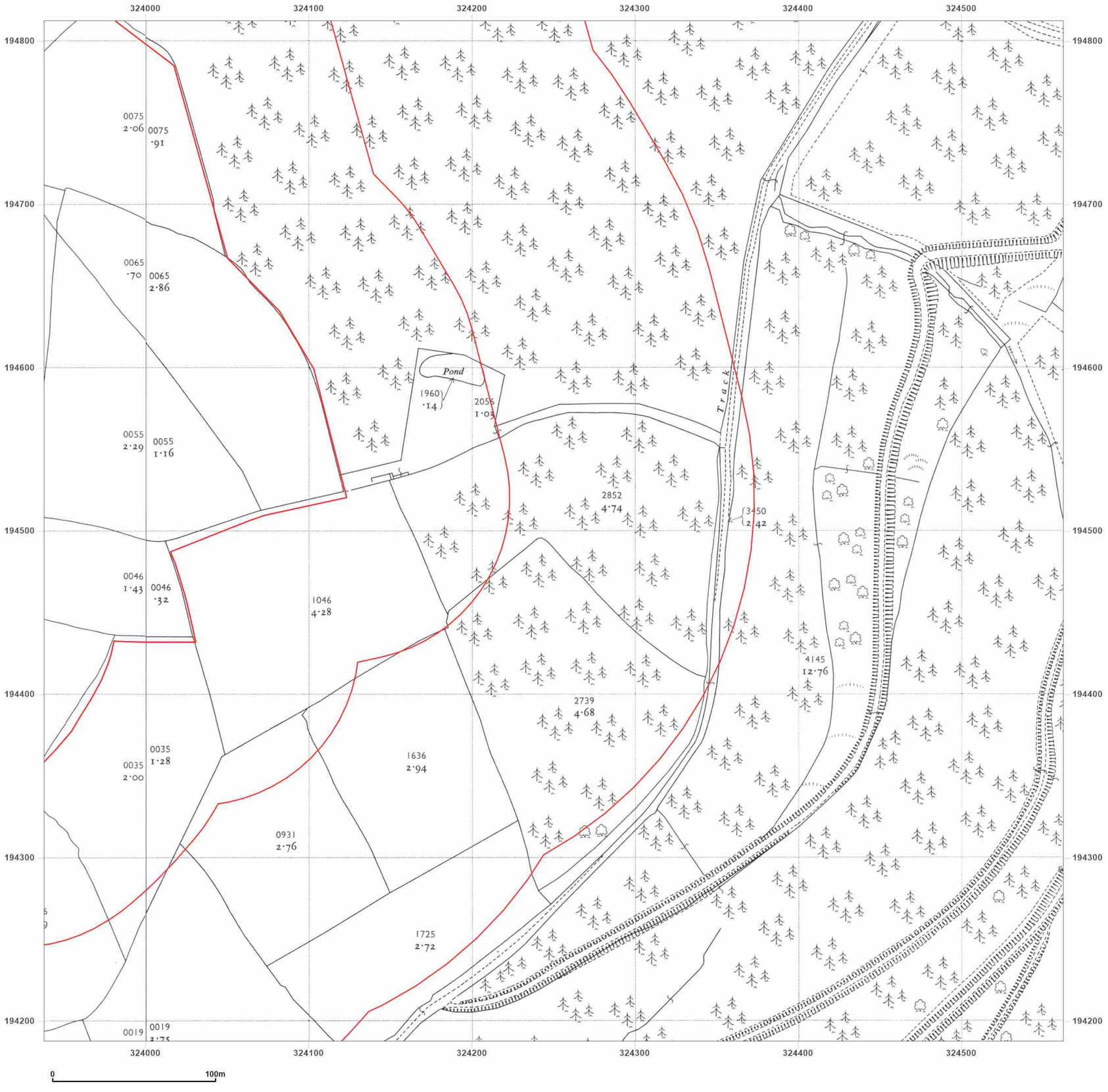
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_1
Grid Ref: 324250, 194500

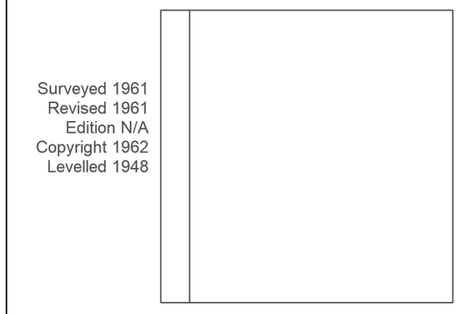
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S



Groundsure INSIGHTS

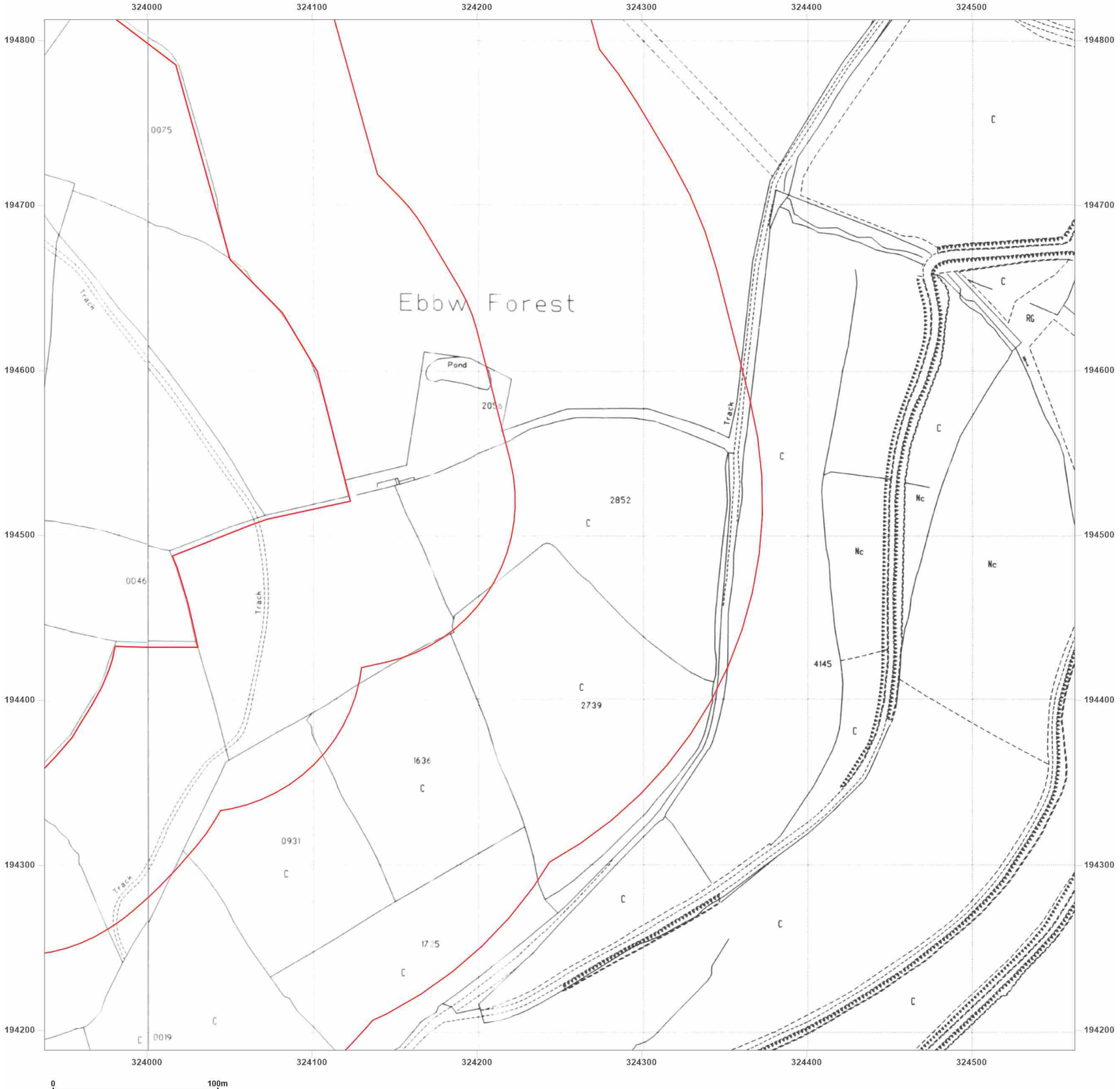
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_1
Grid Ref: 324250, 194500

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_2
Grid Ref: 324250, 195125

Map Name: County Series

Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

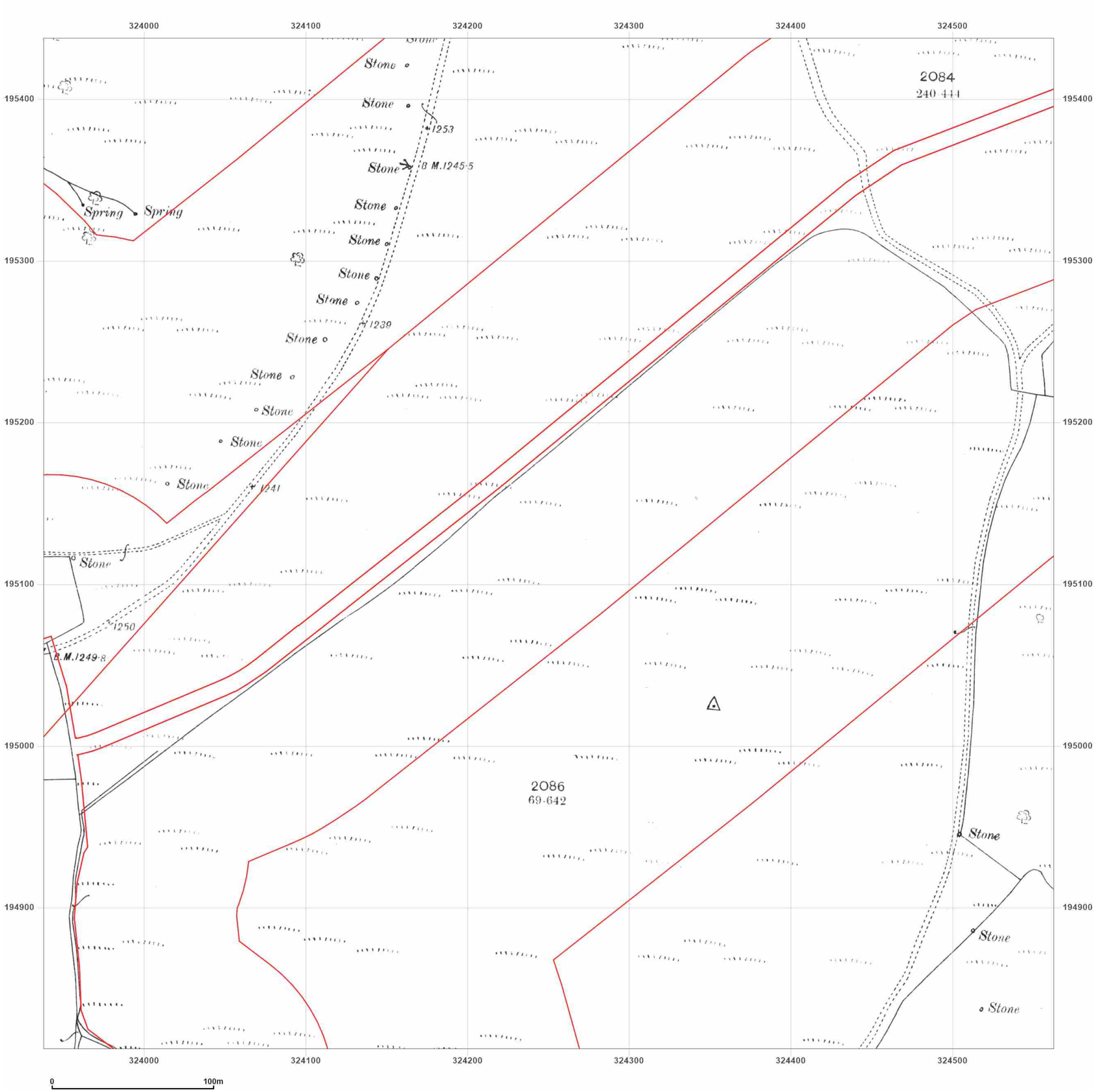
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_2
Grid Ref: 324250, 195125

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

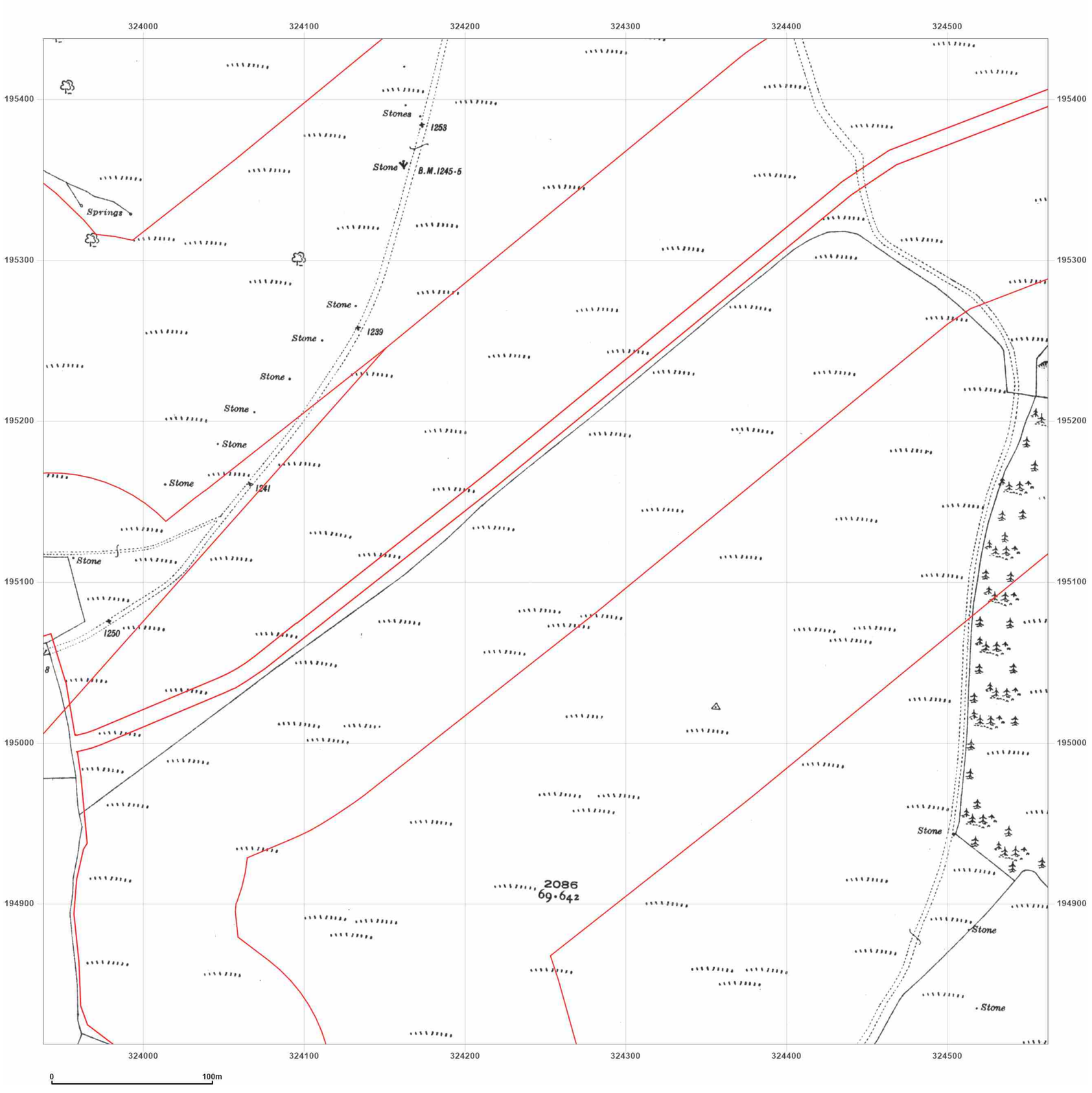
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_2
Grid Ref: 324250, 195125

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_2
Grid Ref: 324250, 195125

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1962 Revised 1962 Edition 1962 Copyright 1962 Levelled 1958	Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1948
Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1948	Surveyed 1962 Revised 1962 Edition N/A Copyright 1962 Levelled 1958

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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_2
Grid Ref: 324250, 195125

Map Name: National Grid

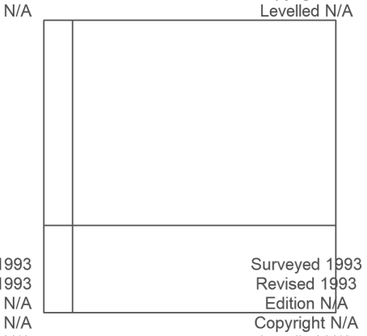
Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
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Edition N/A
Copyright N/A
Levelled N/A

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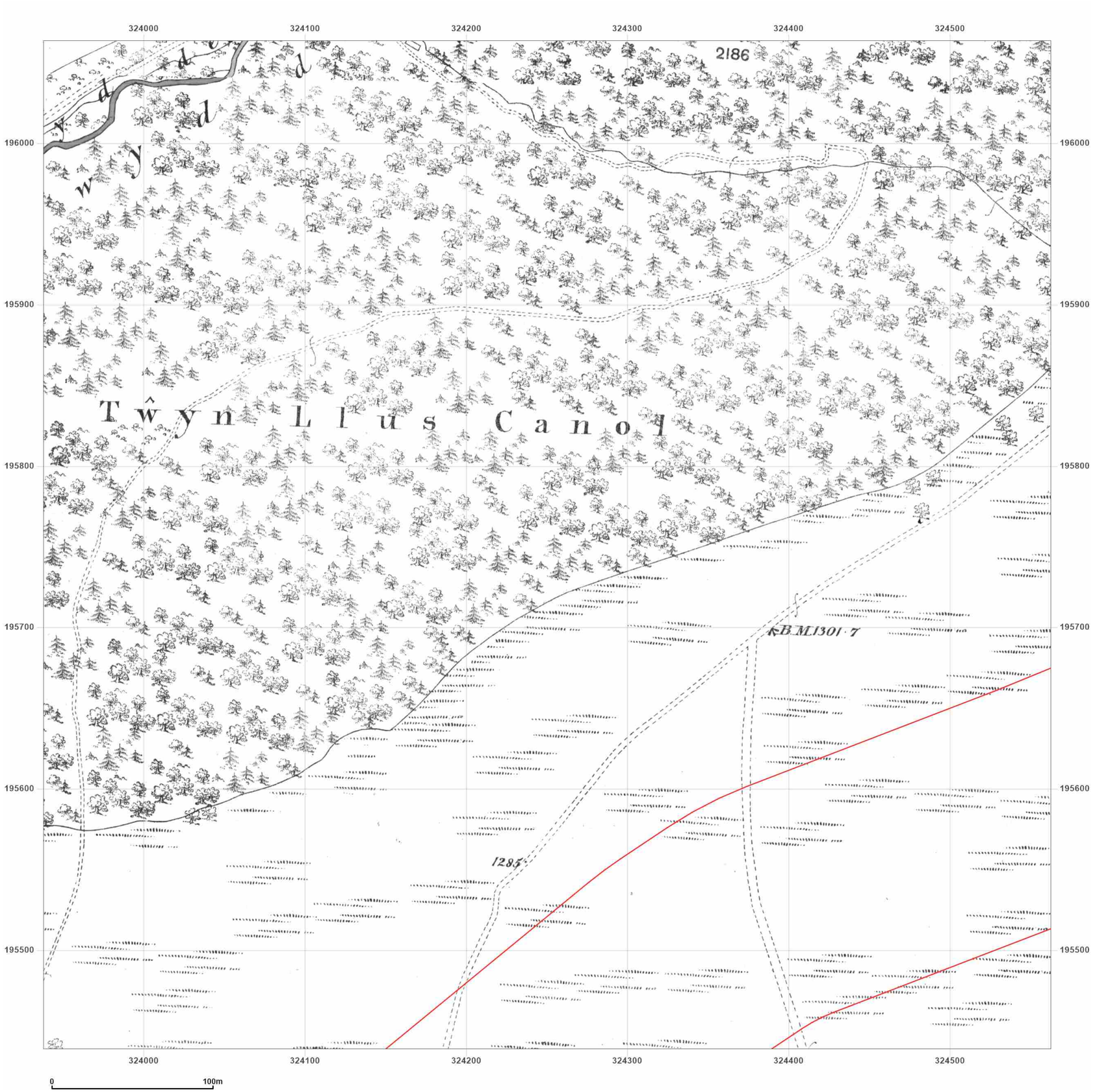
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_3
Grid Ref: 324250, 195751

Map Name: County Series

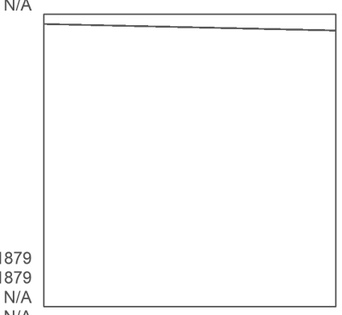
Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

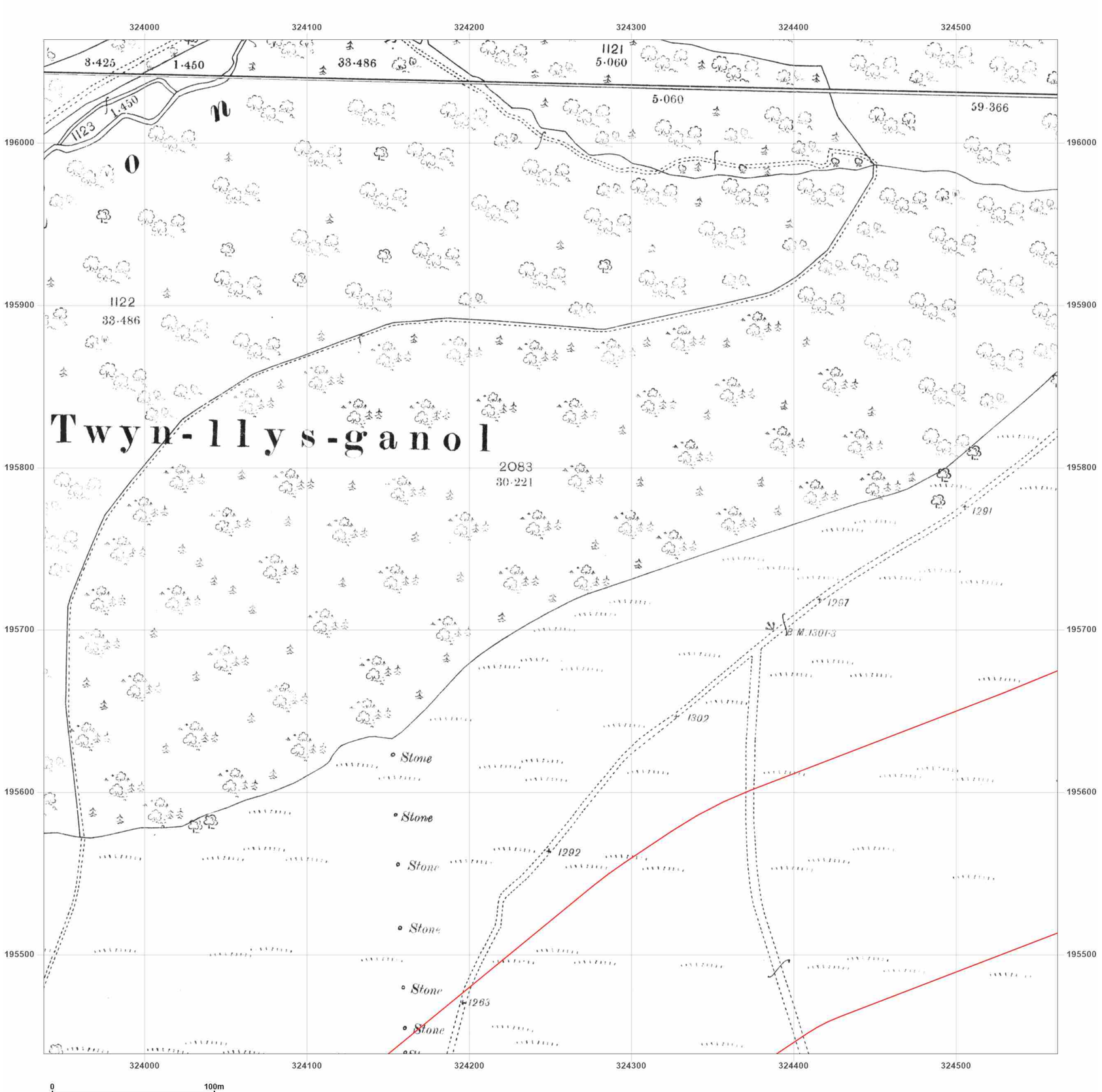
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_3
Grid Ref: 324250, 195751

Map Name: County Series

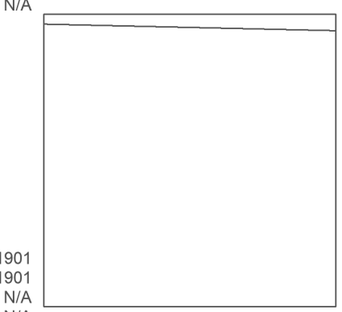
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

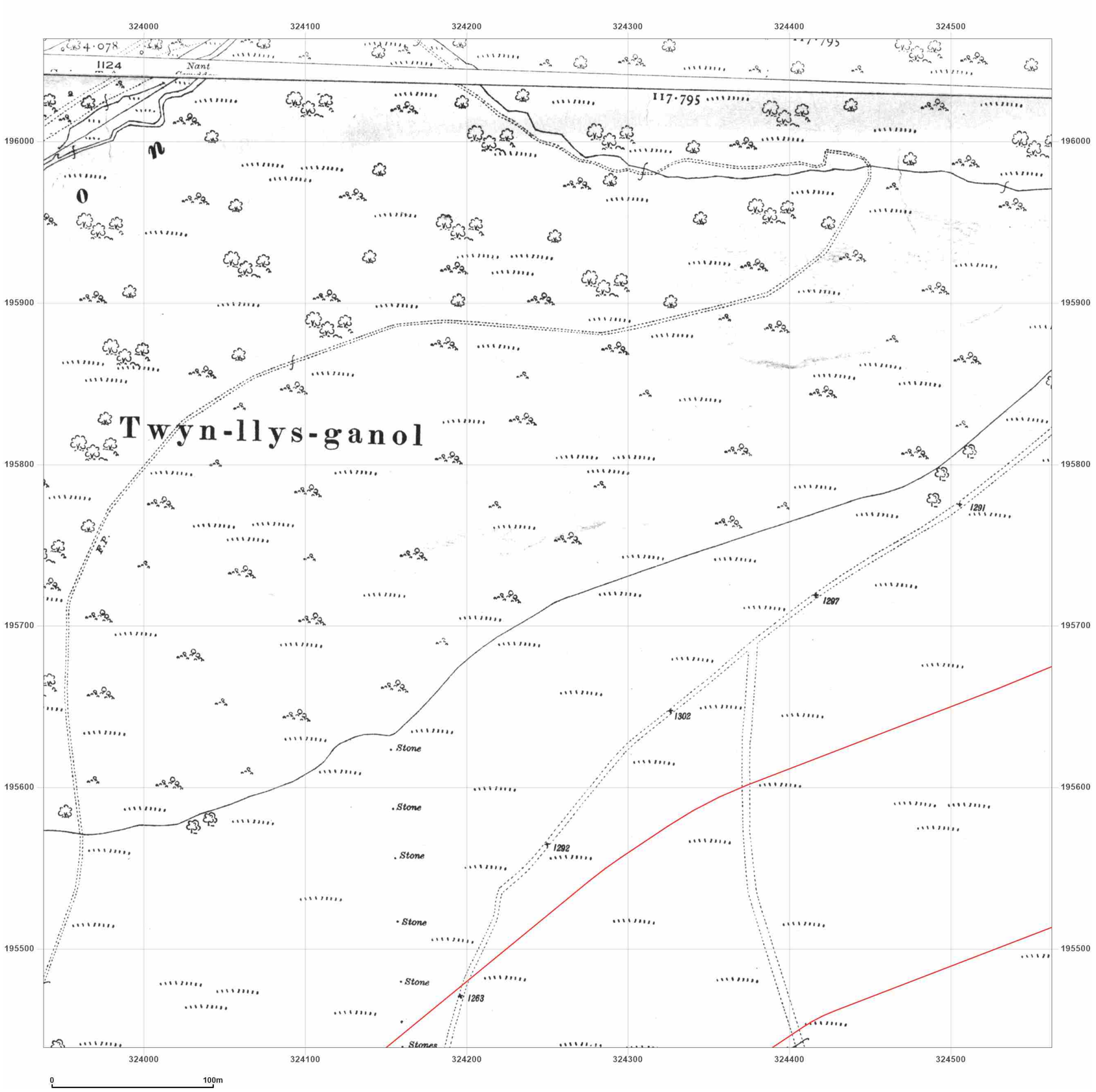
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_3
Grid Ref: 324250, 195751

Map Name: County Series

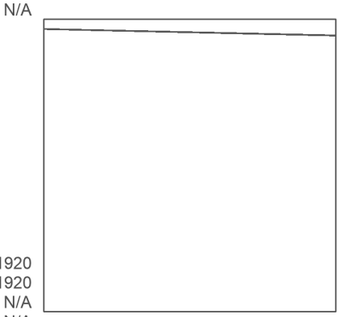
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_3
Grid Ref: 324250, 195751

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Surveyed 1962
Revised 1962
Edition 1962
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

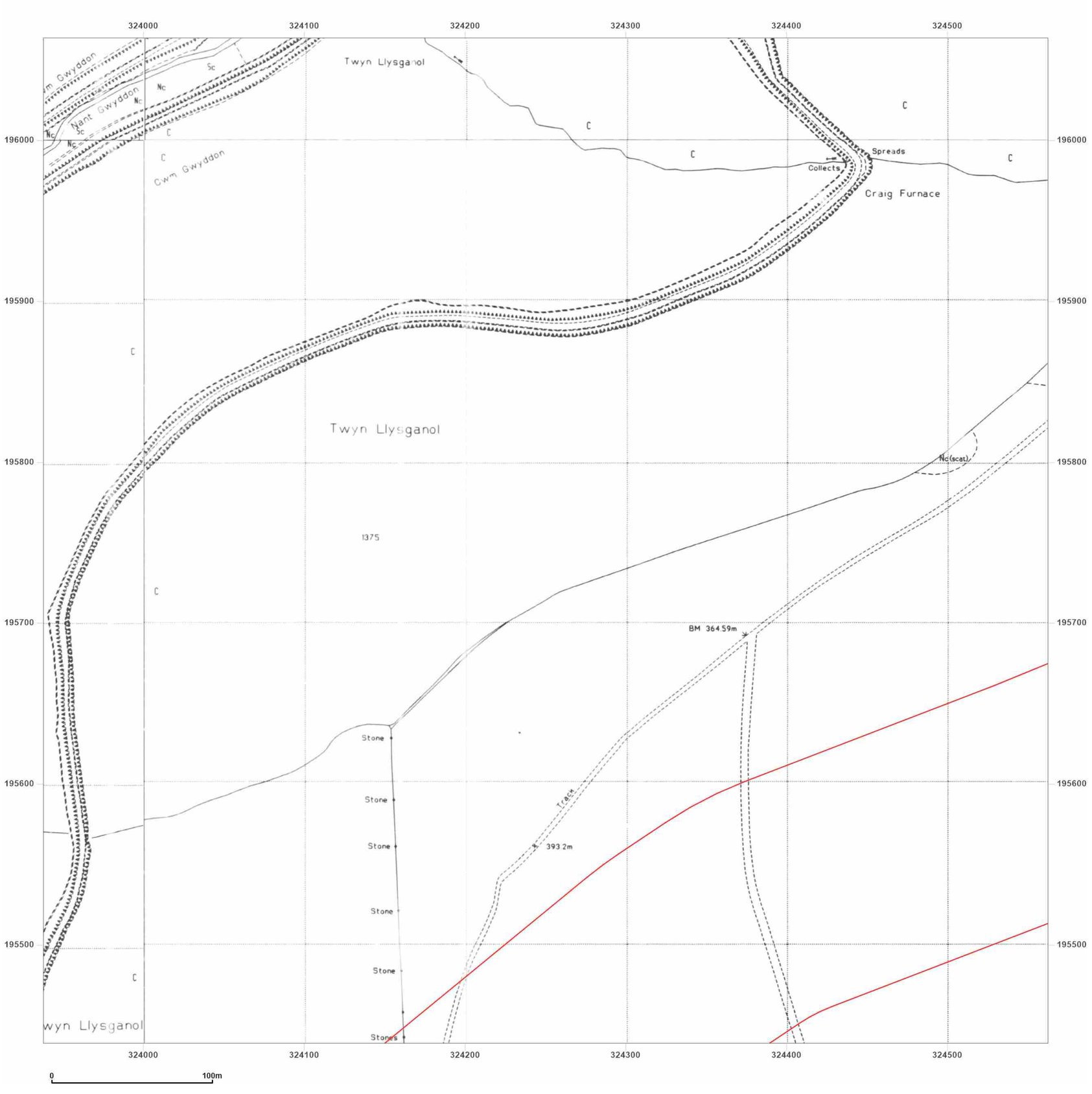
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_3
Grid Ref: 324250, 195751

Map Name: National Grid

Map date: **1993**

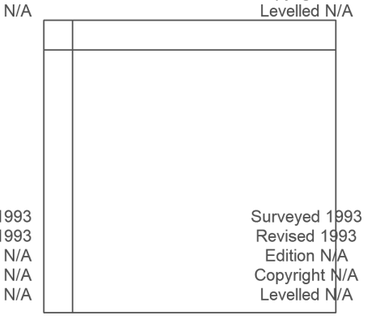
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

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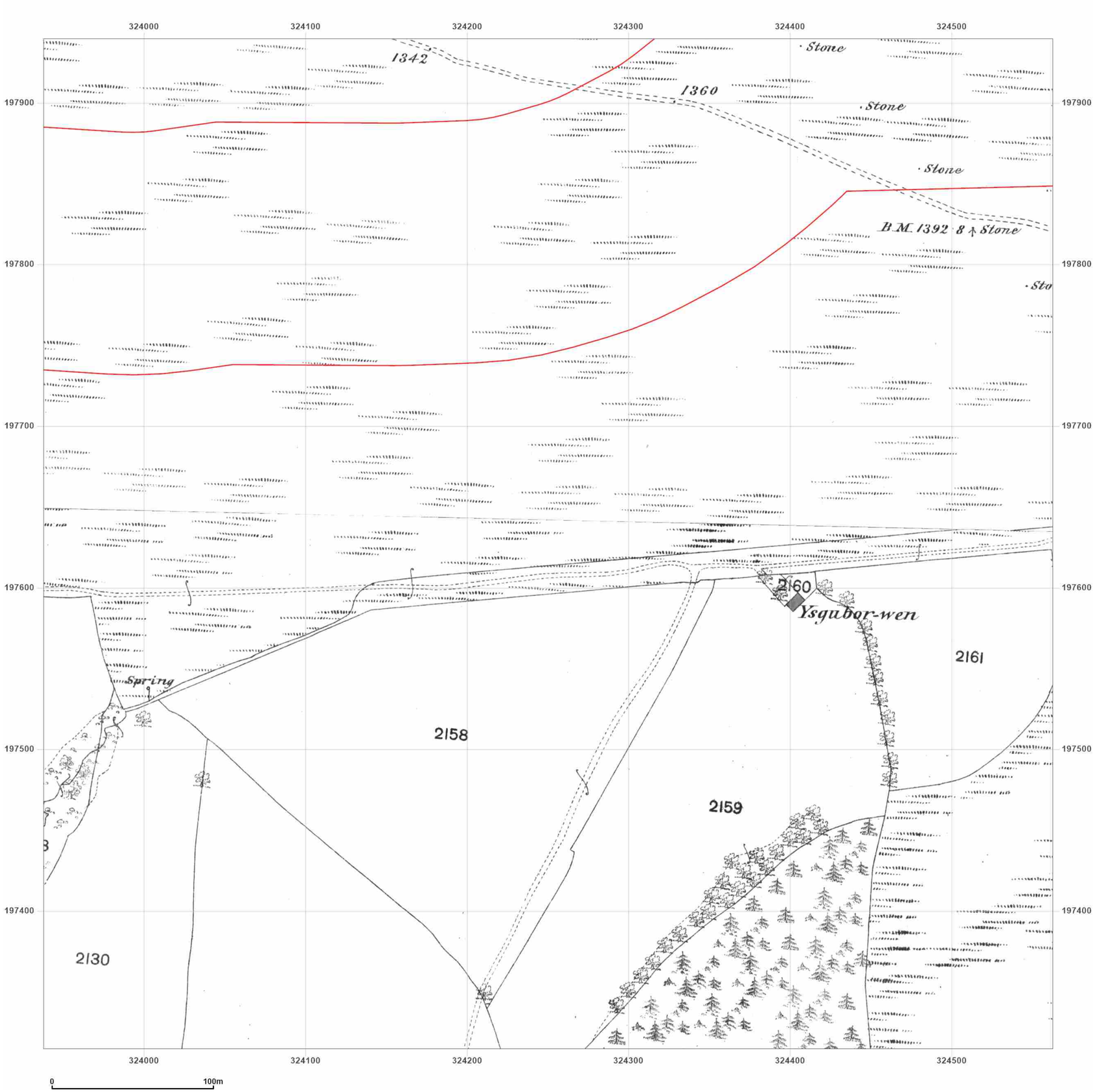
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Production date: 12 September 2025

Map legend available at:
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_6
Grid Ref: 324250, 197627

Map Name: County Series

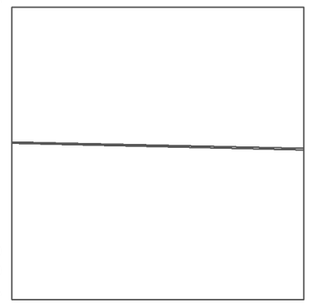
Map date: **1879-1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

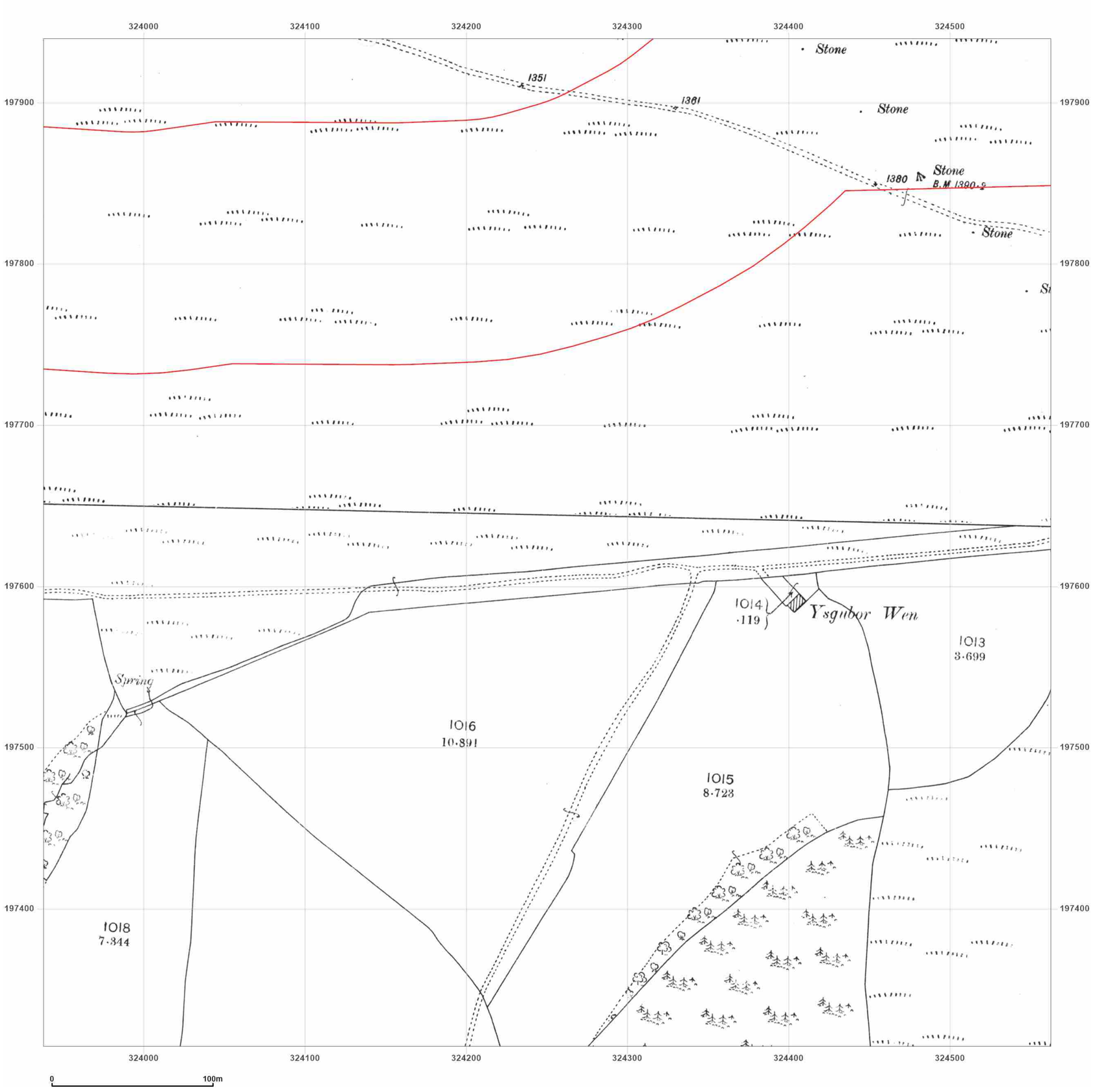
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_6
Grid Ref: 324250, 197627

Map Name: County Series

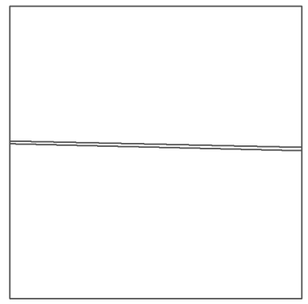
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

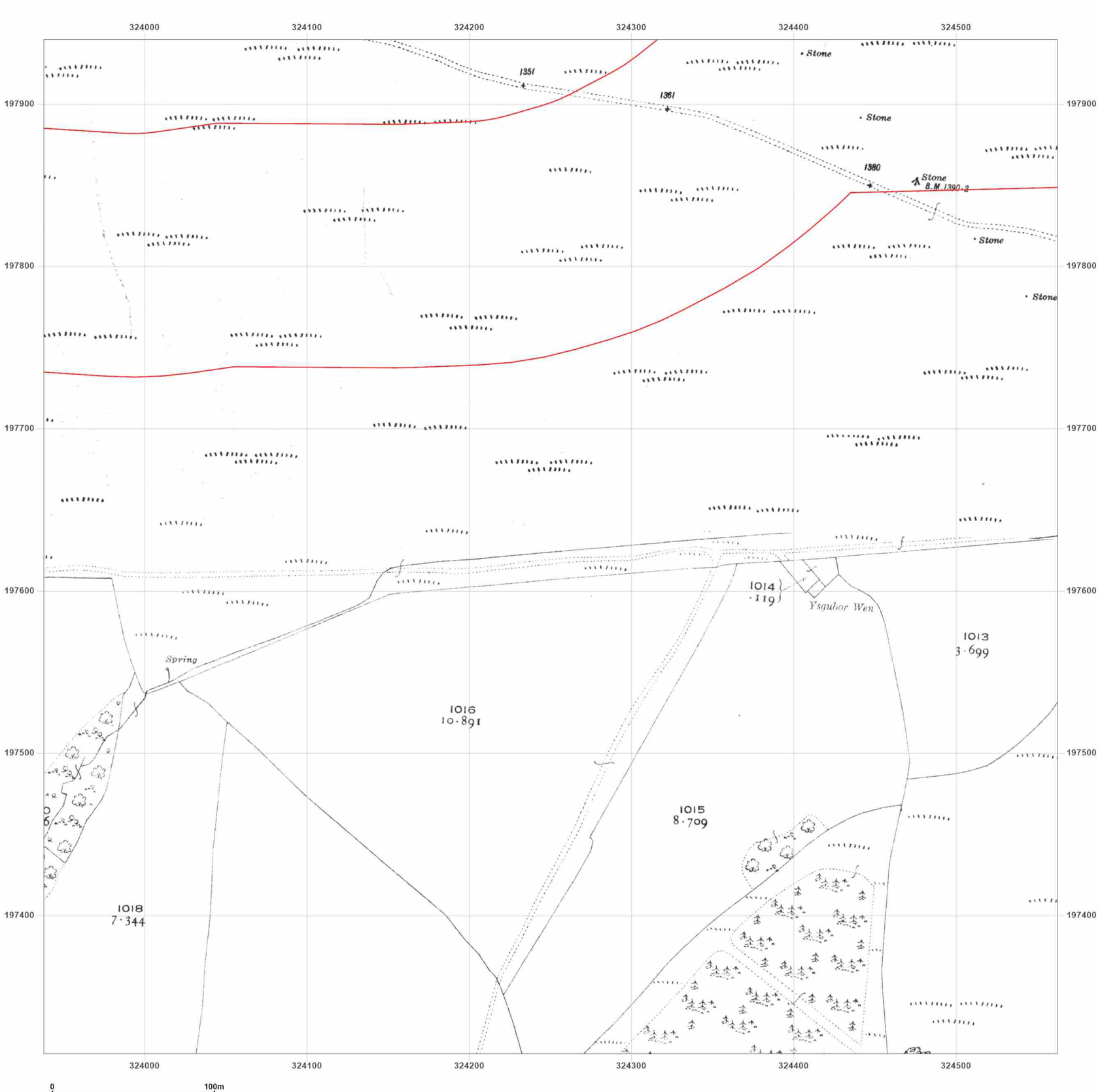
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_6
Grid Ref: 324250, 197627

Map Name: County Series

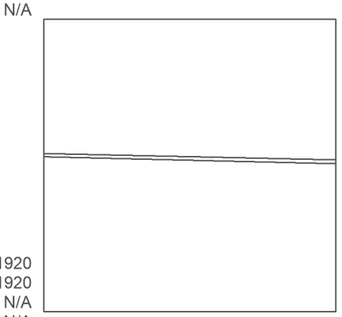
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

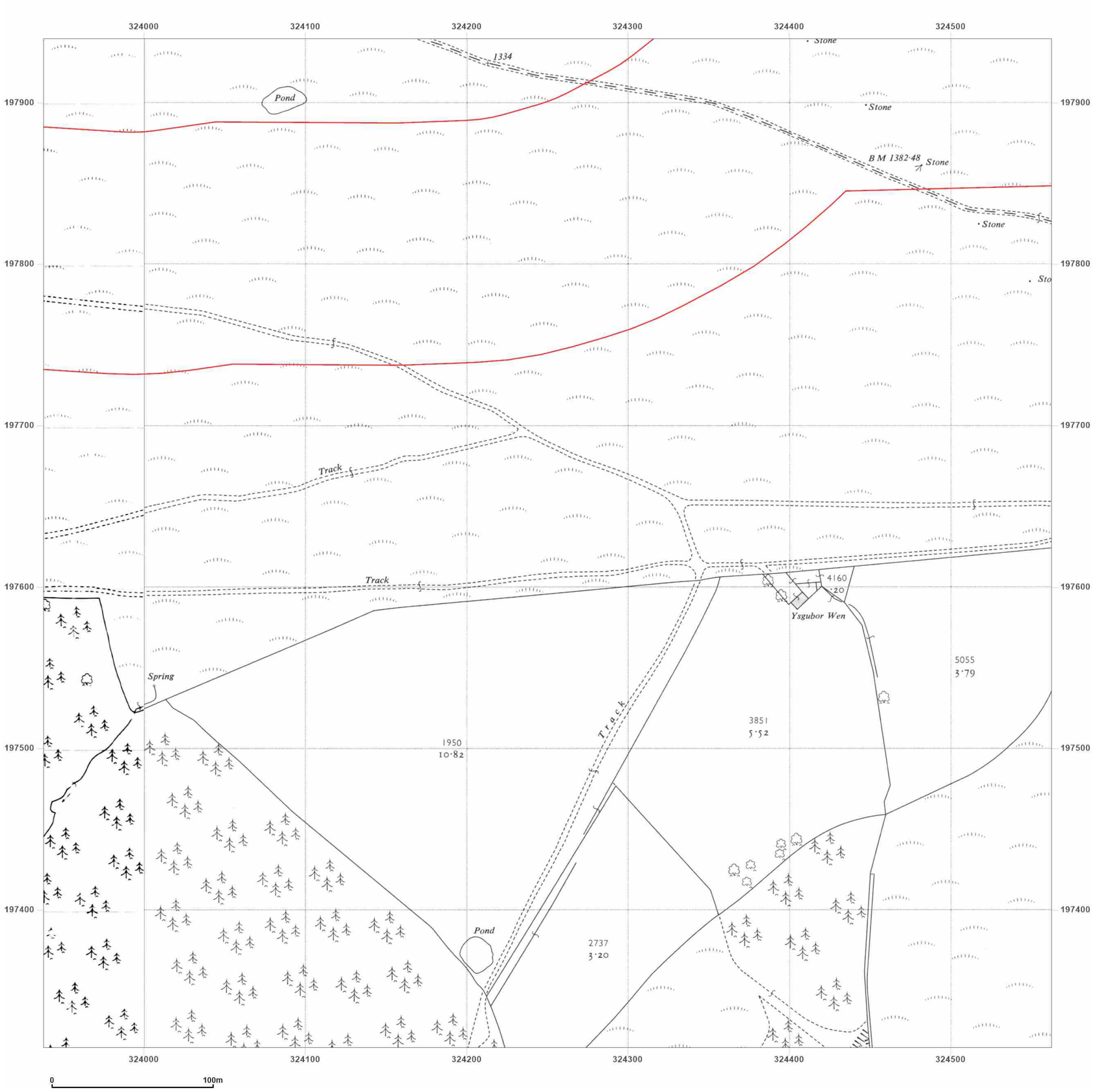
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_6
Grid Ref: 324250, 197627

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

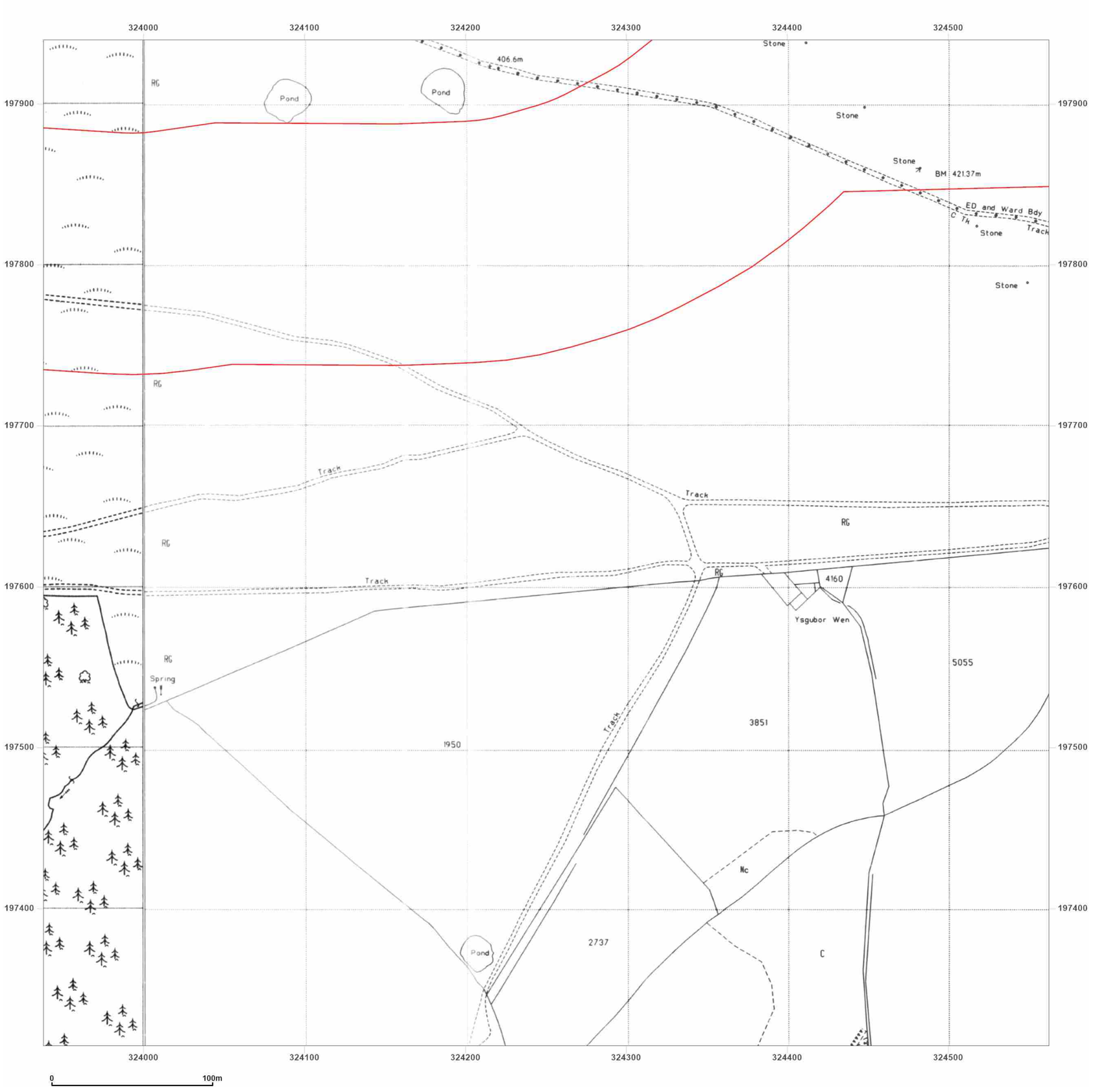
Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_6
Grid Ref: 324250, 197627

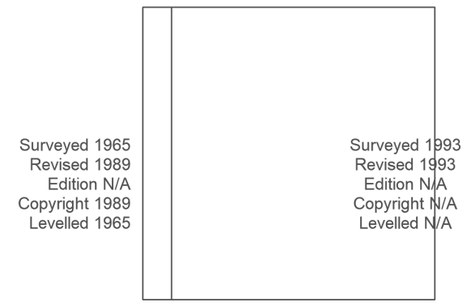
Map Name: National Grid

Map date: **1989-1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Groundsure INSIGHTS

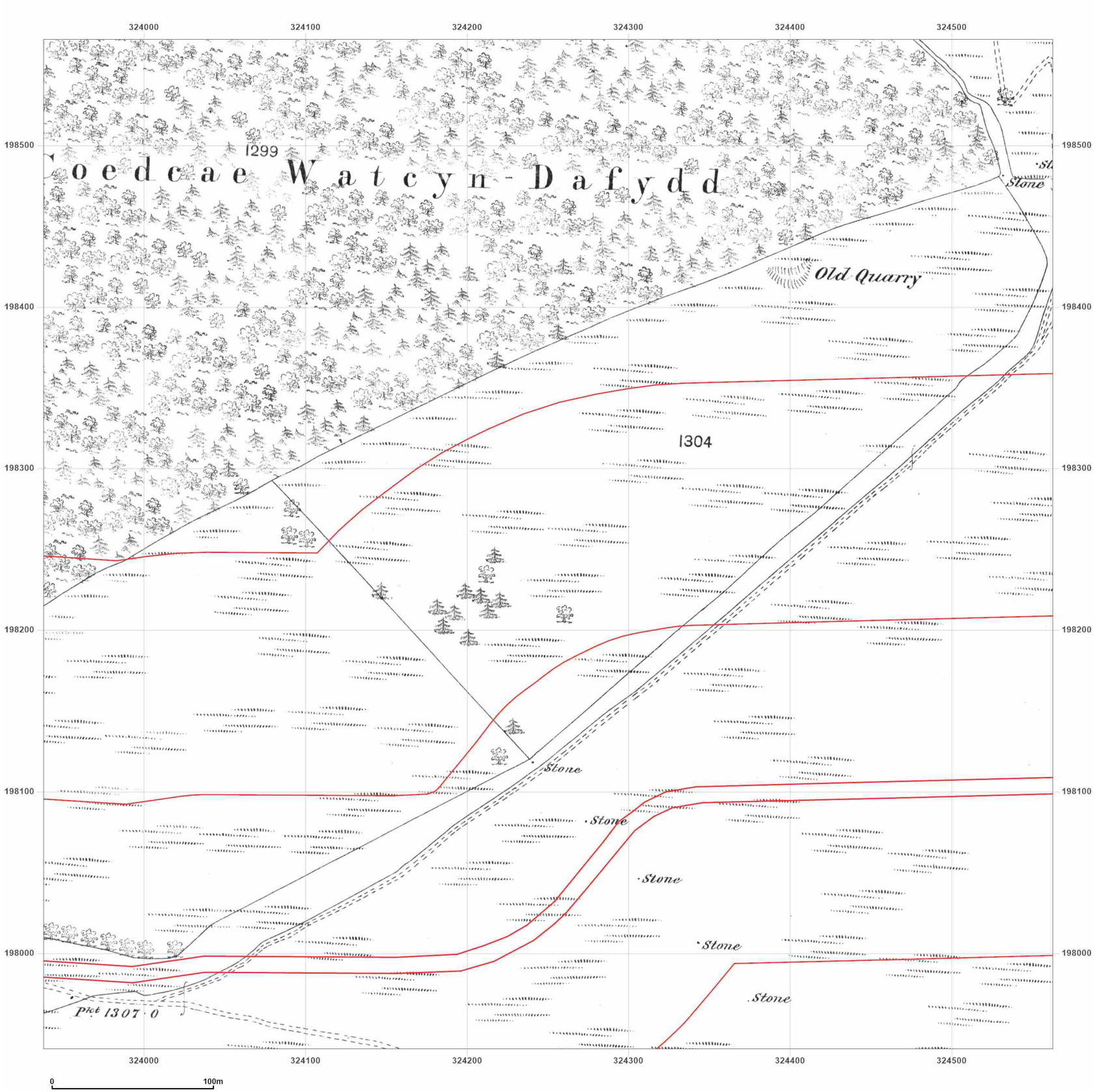
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_7
Grid Ref: 324250, 198253

Map Name: County Series

Map date: **1880**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

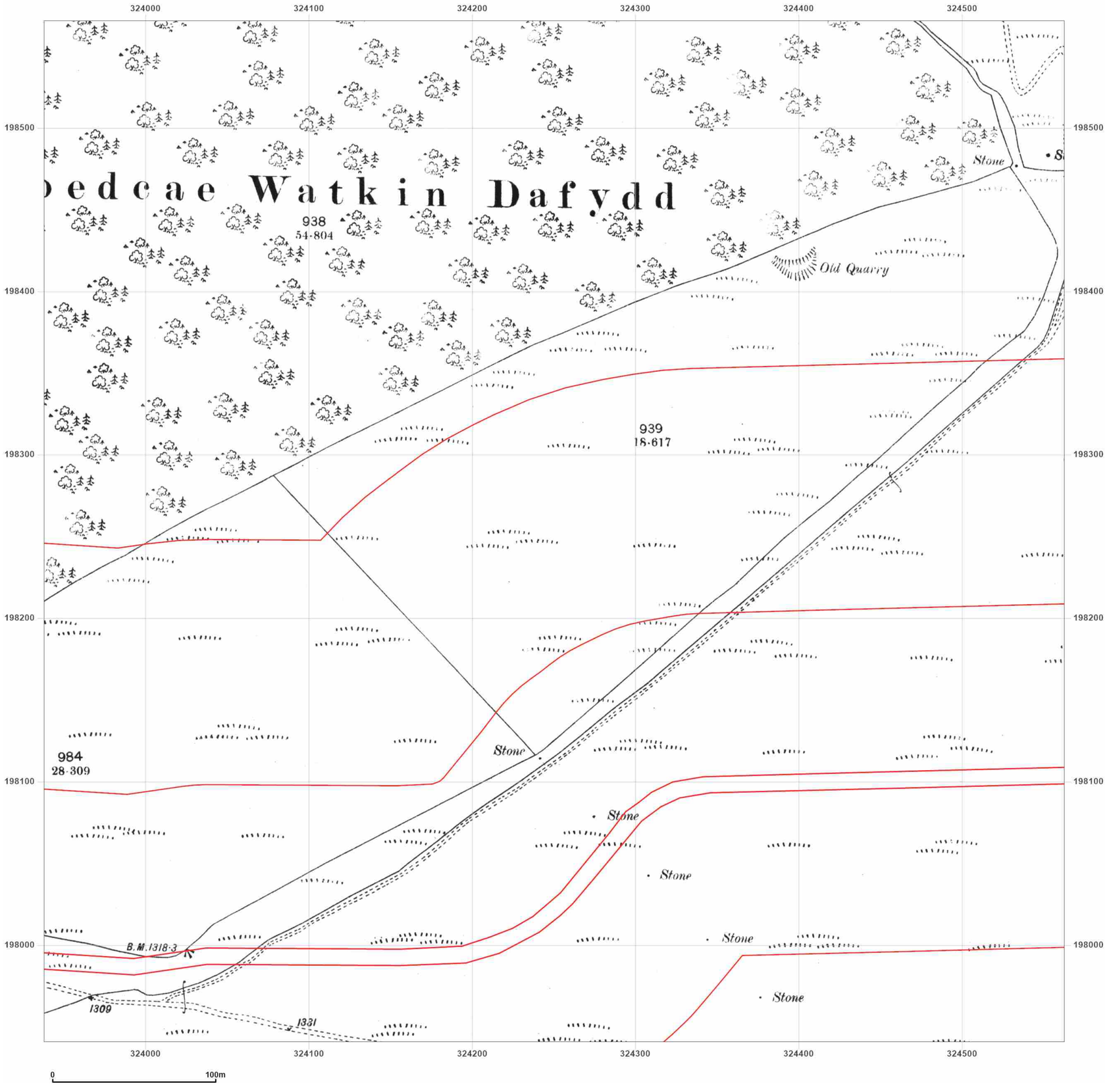
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_7
Grid Ref: 324250, 198253

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

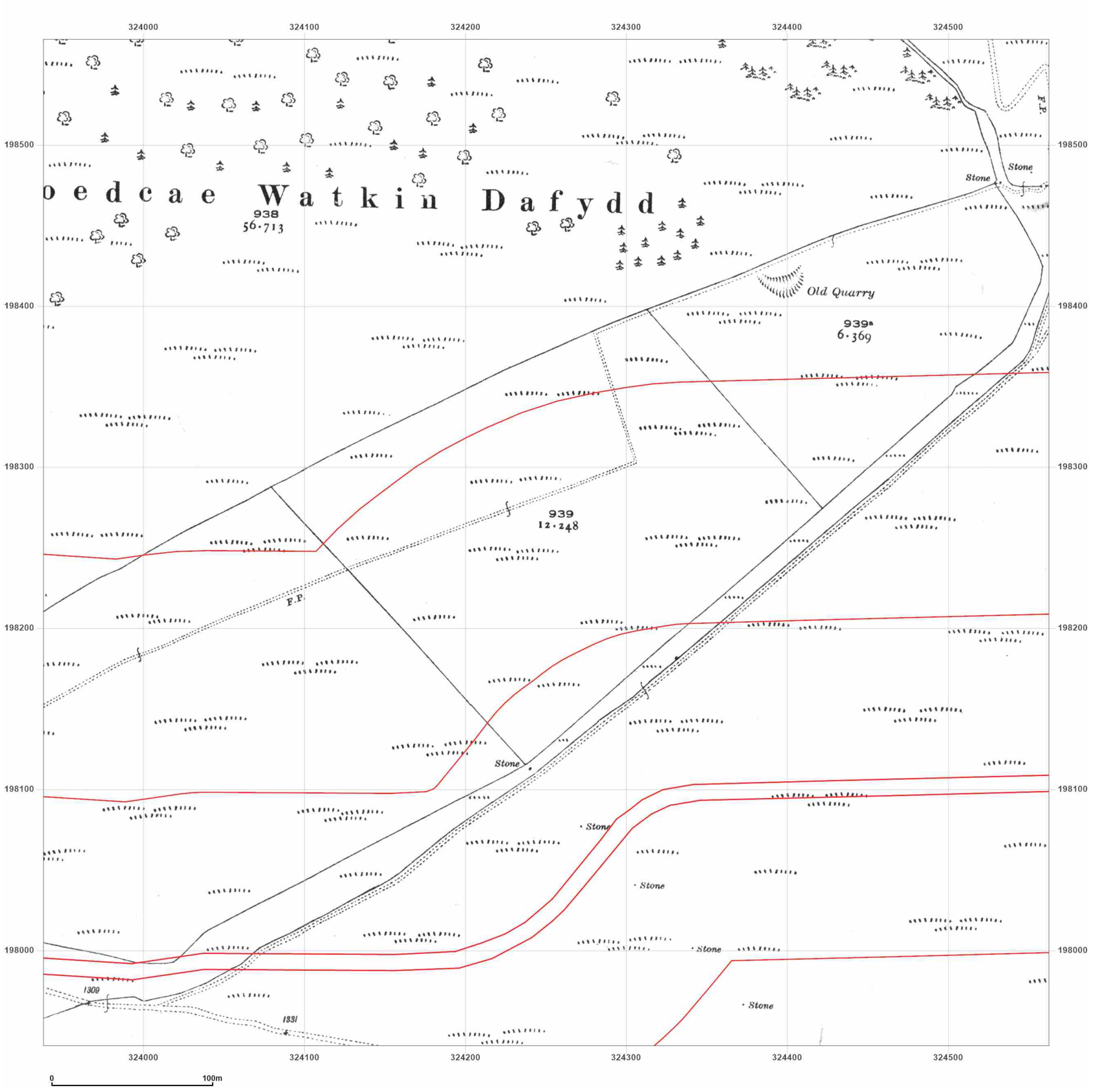
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_7
Grid Ref: 324250, 198253

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

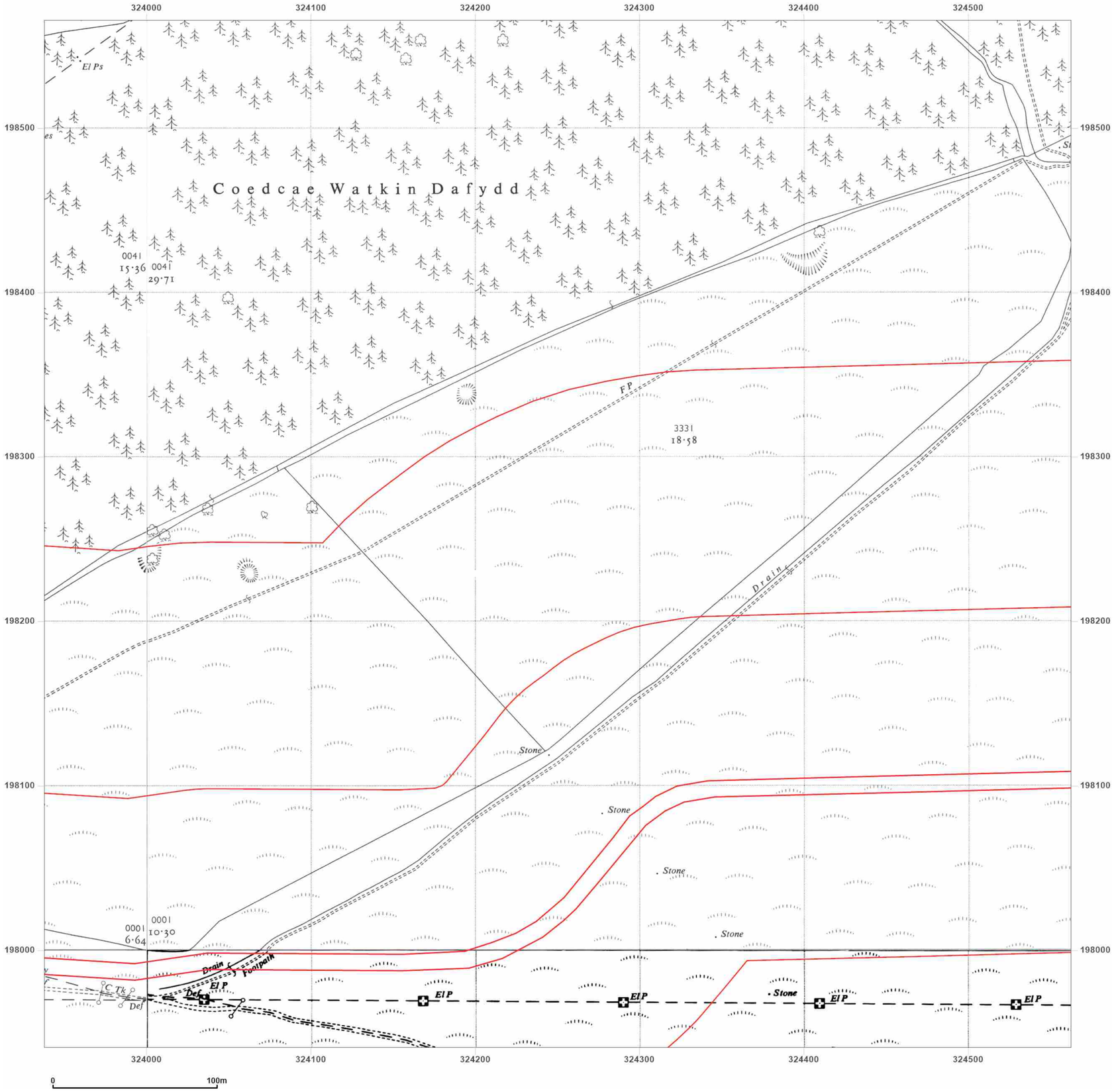
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_7
Grid Ref: 324250, 198253

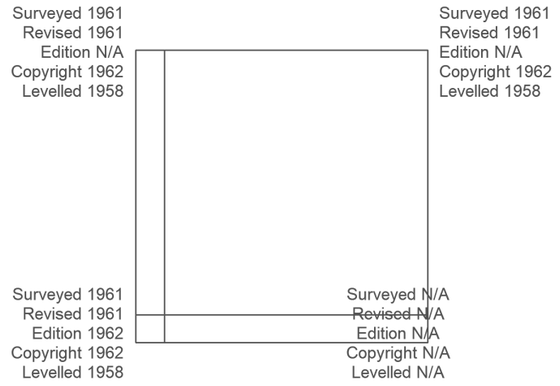
Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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Groundsure INSIGHTS

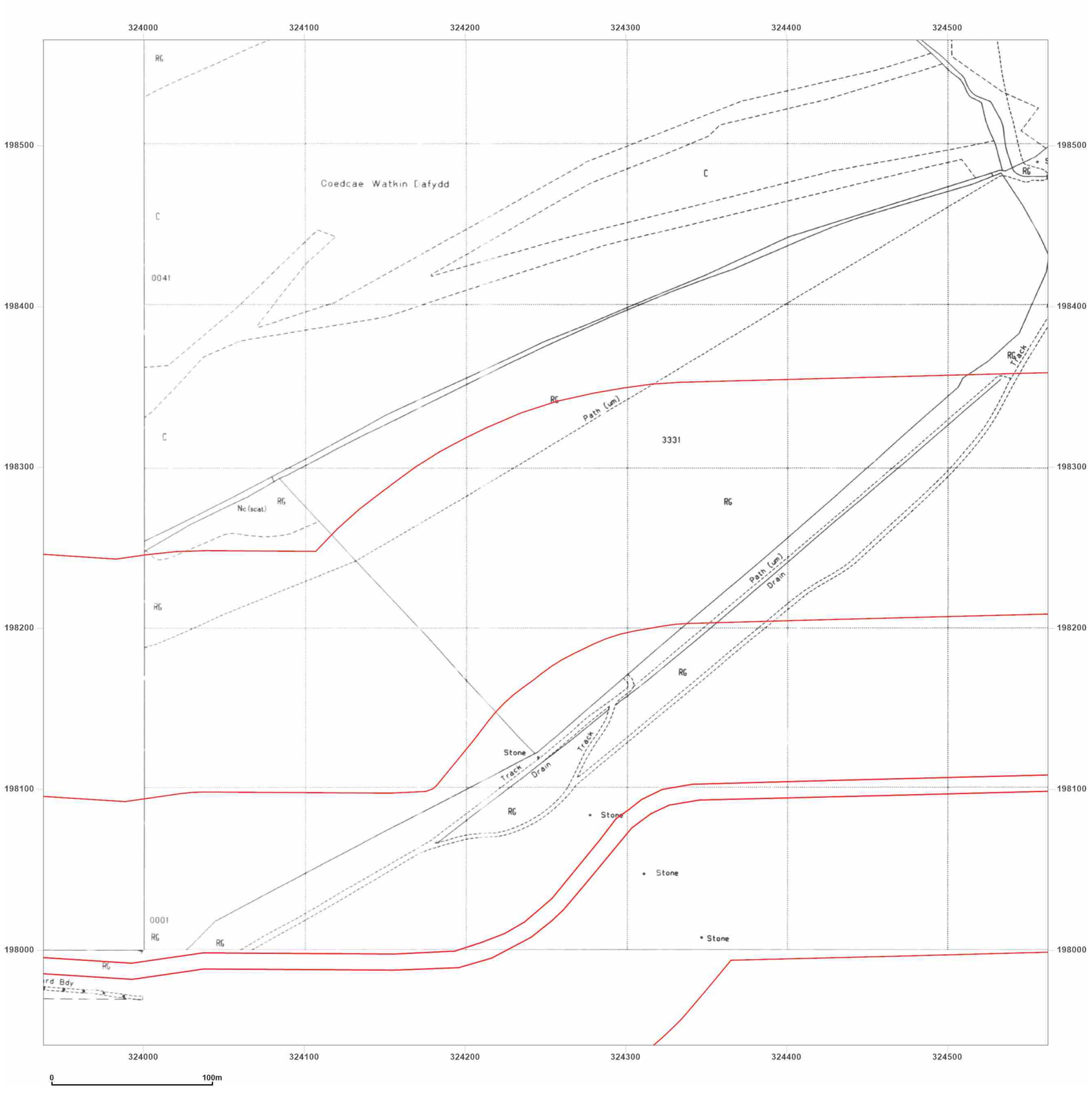
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_4_7
Grid Ref: 324250, 198253

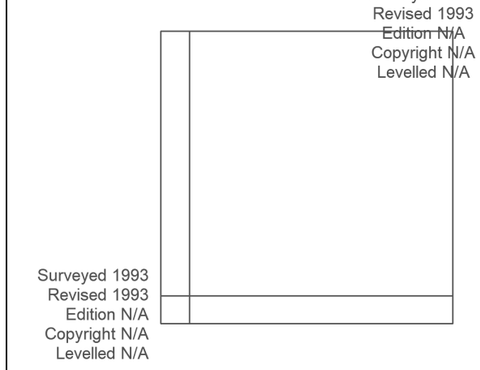
Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Groundsure INSIGHTS

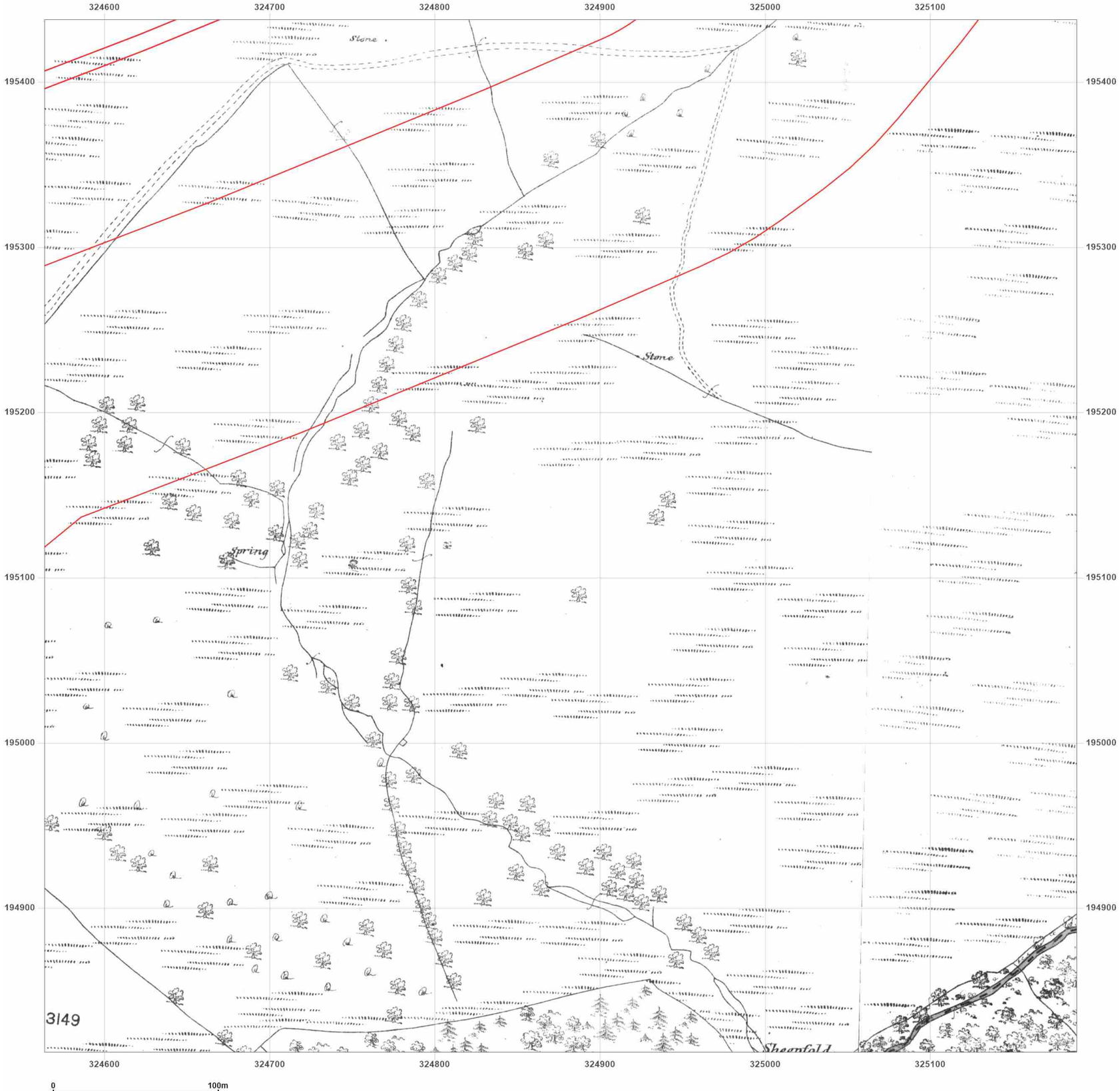
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_2
Grid Ref: 324876, 195125

Map Name: County Series

Map date: **1879-1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

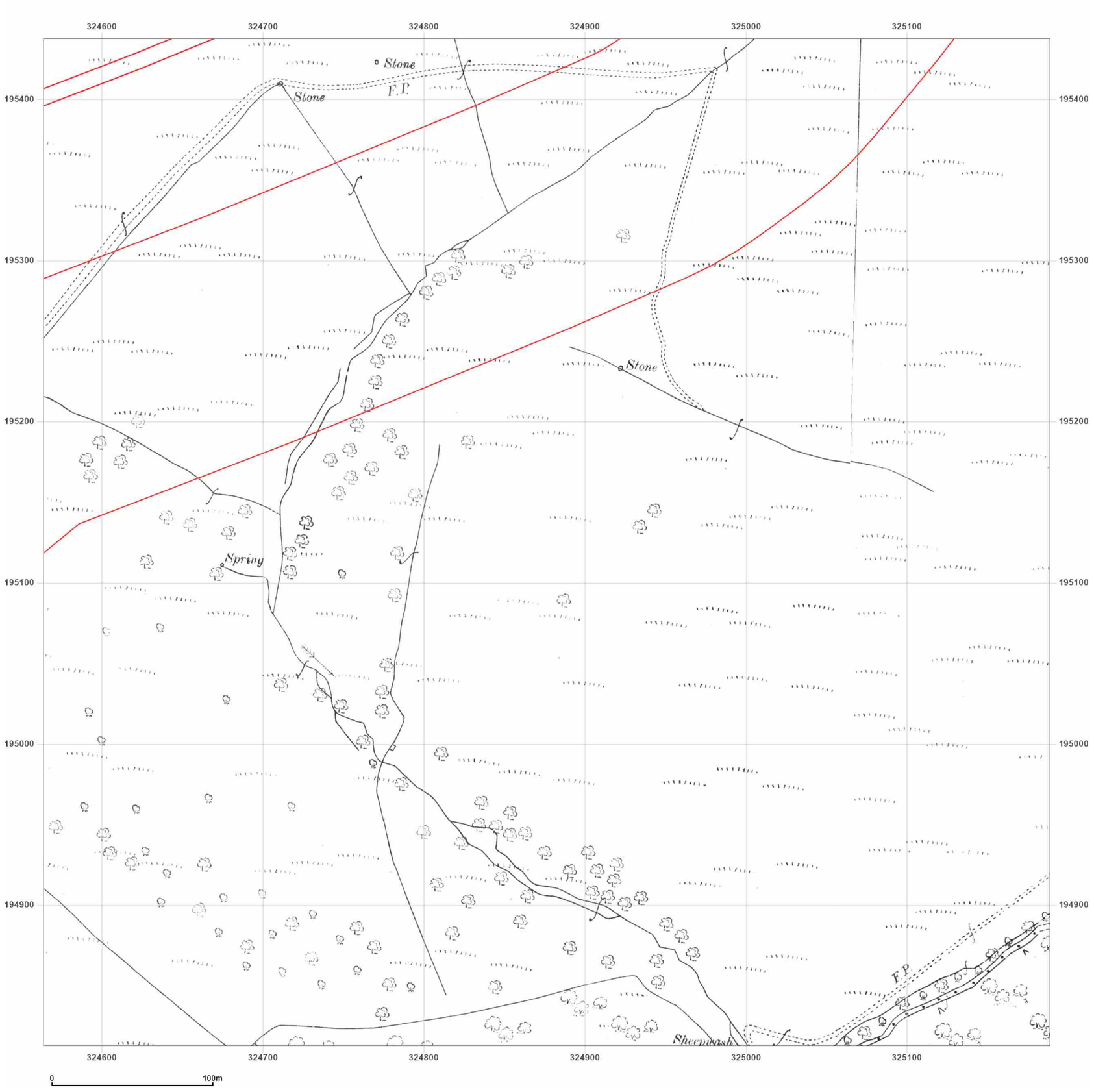
Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_2
Grid Ref: 324876, 195125

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

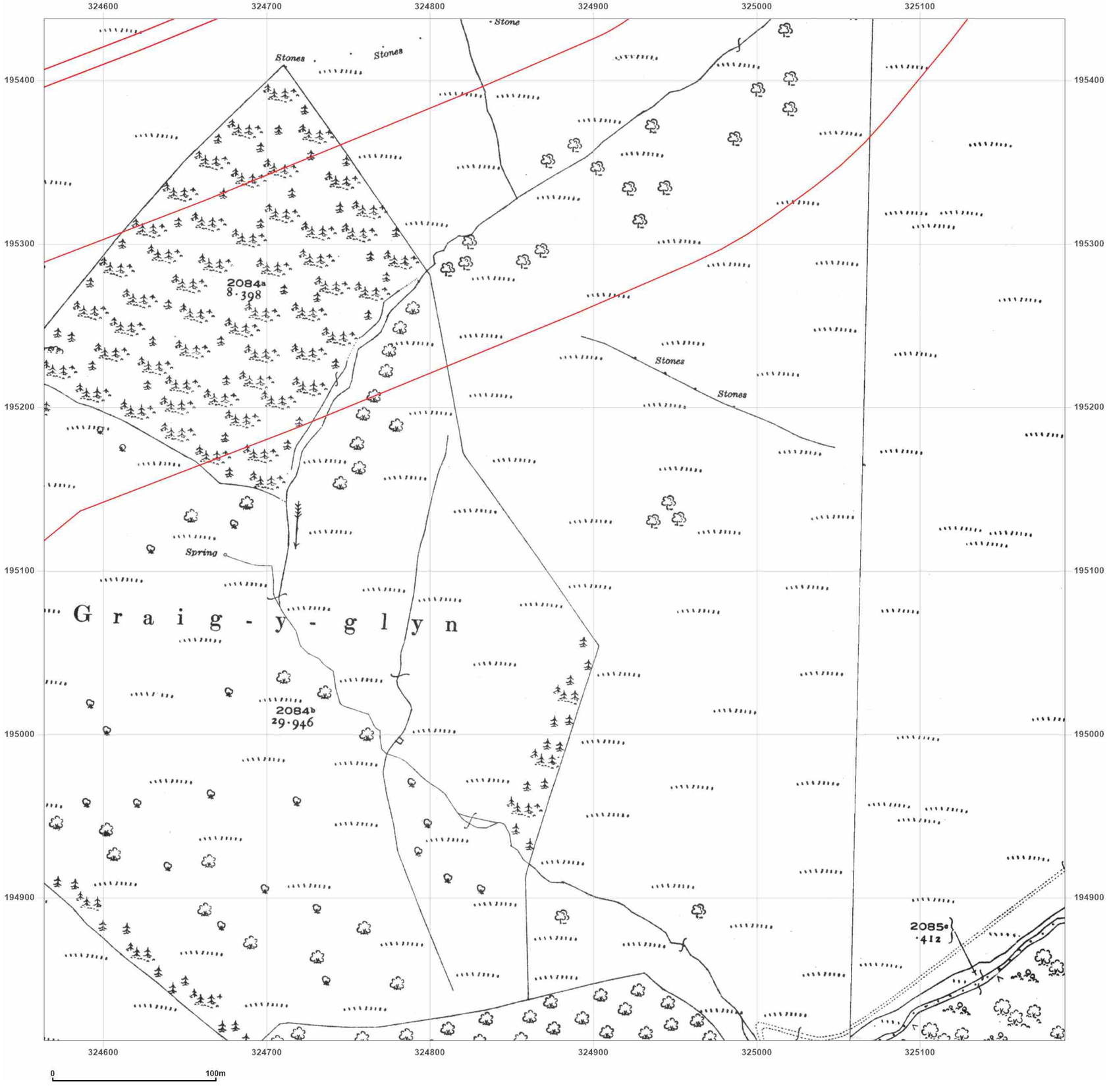
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Site Details:

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Grid Ref: 324876, 195125

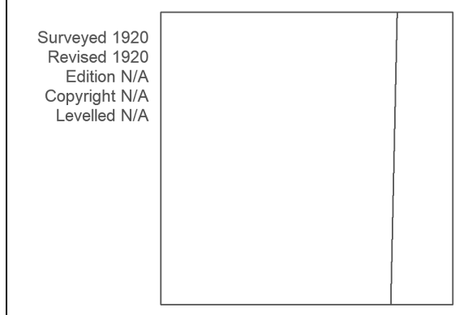
Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Groundsure INSIGHTS

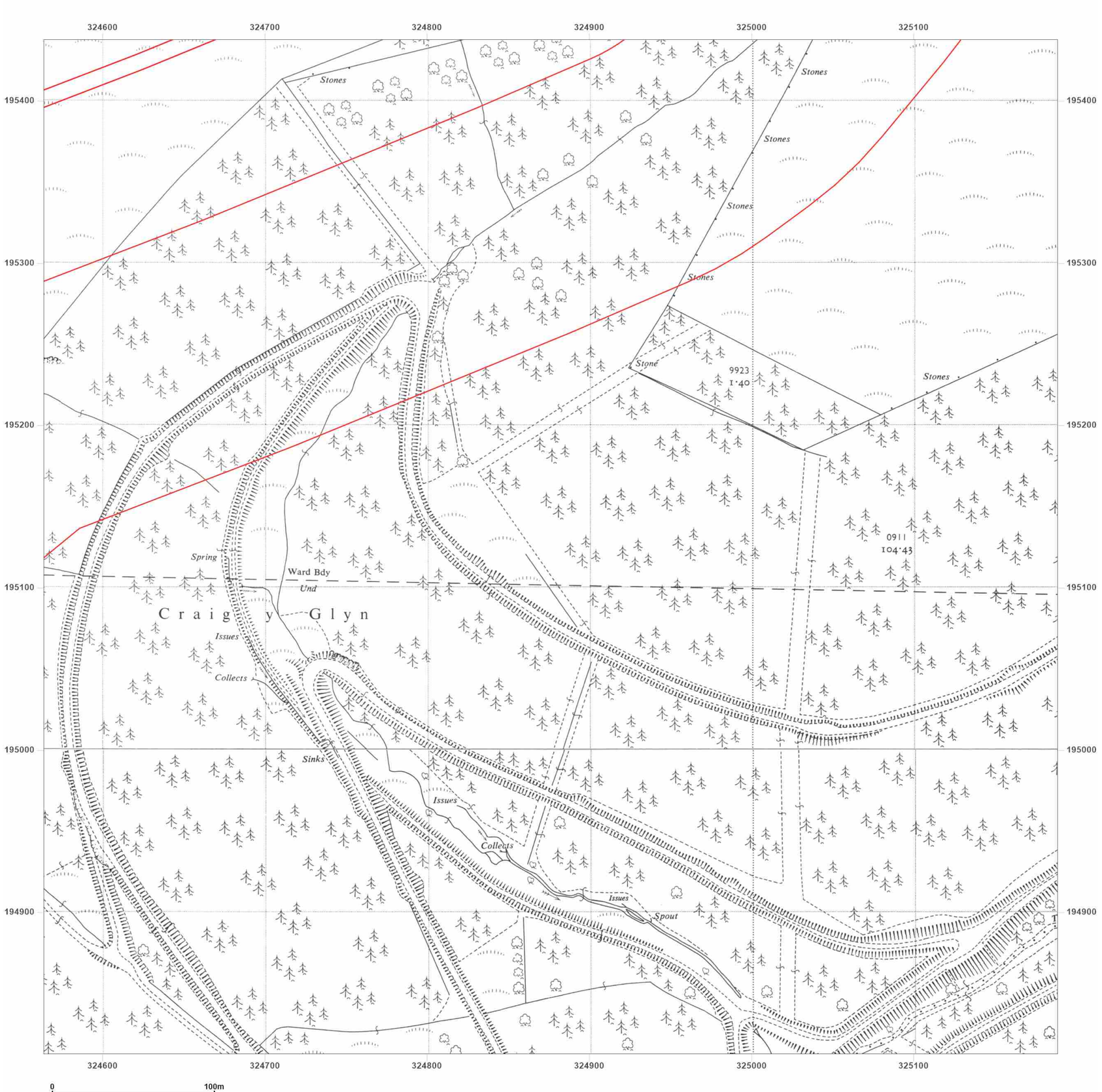
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_2
Grid Ref: 324876, 195125

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Surveyed 1962
Revised 1962
Edition N/A
Copyright 1962
Levelled 1958

Groundsure INSIGHTS

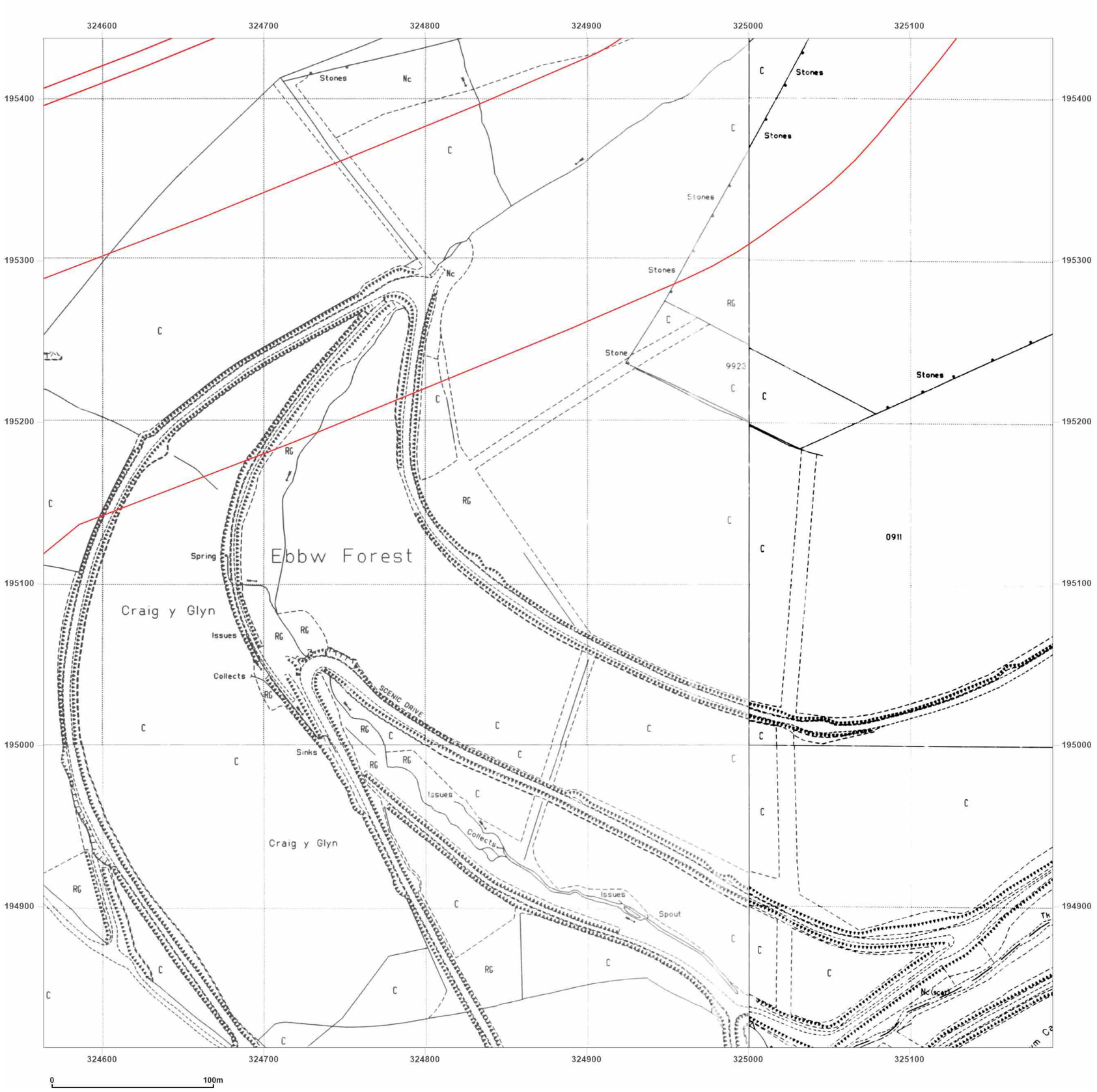
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_2
Grid Ref: 324876, 195125

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed 1993
Revised 1993
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Levelled N/A

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Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Groundsure INSIGHTS

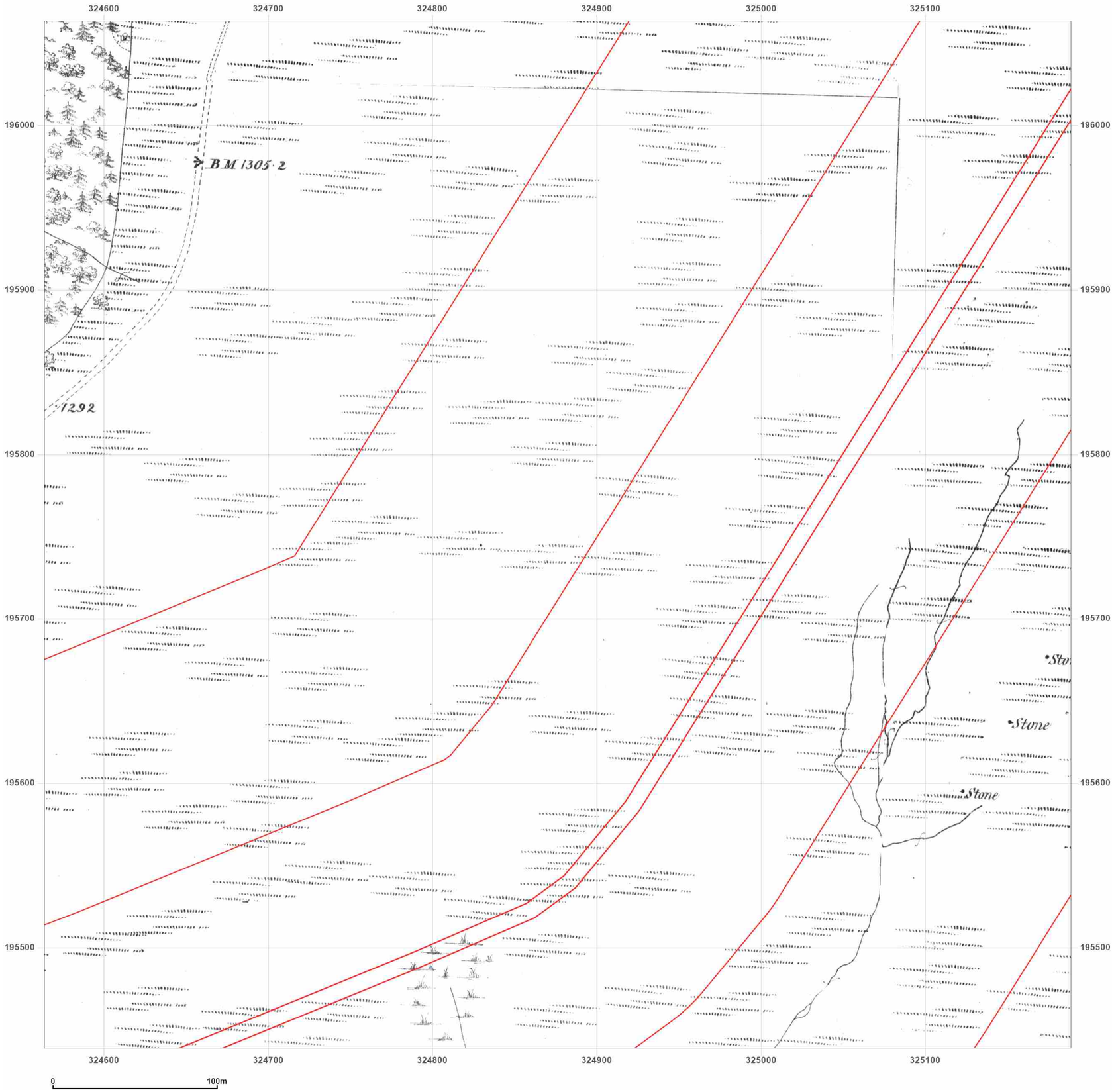
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_3
Grid Ref: 324876, 195751

Map Name: County Series

Map date: **1879-1882**

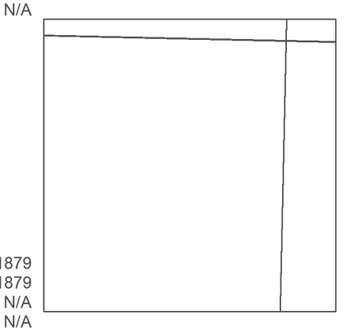
Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

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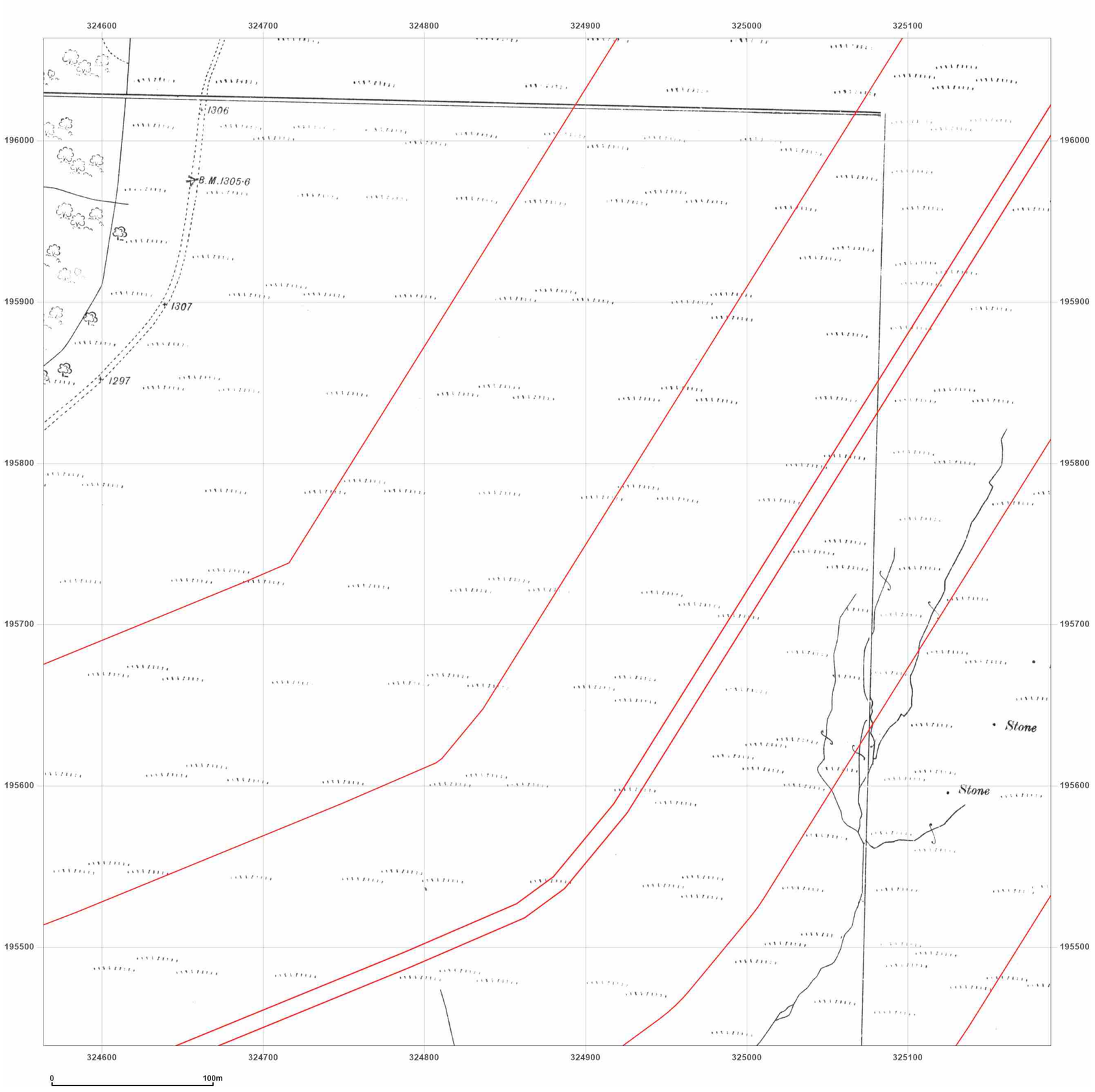
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_3
Grid Ref: 324876, 195751

Map Name: County Series

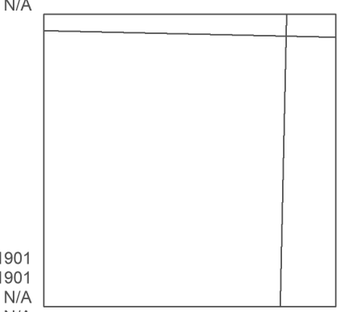
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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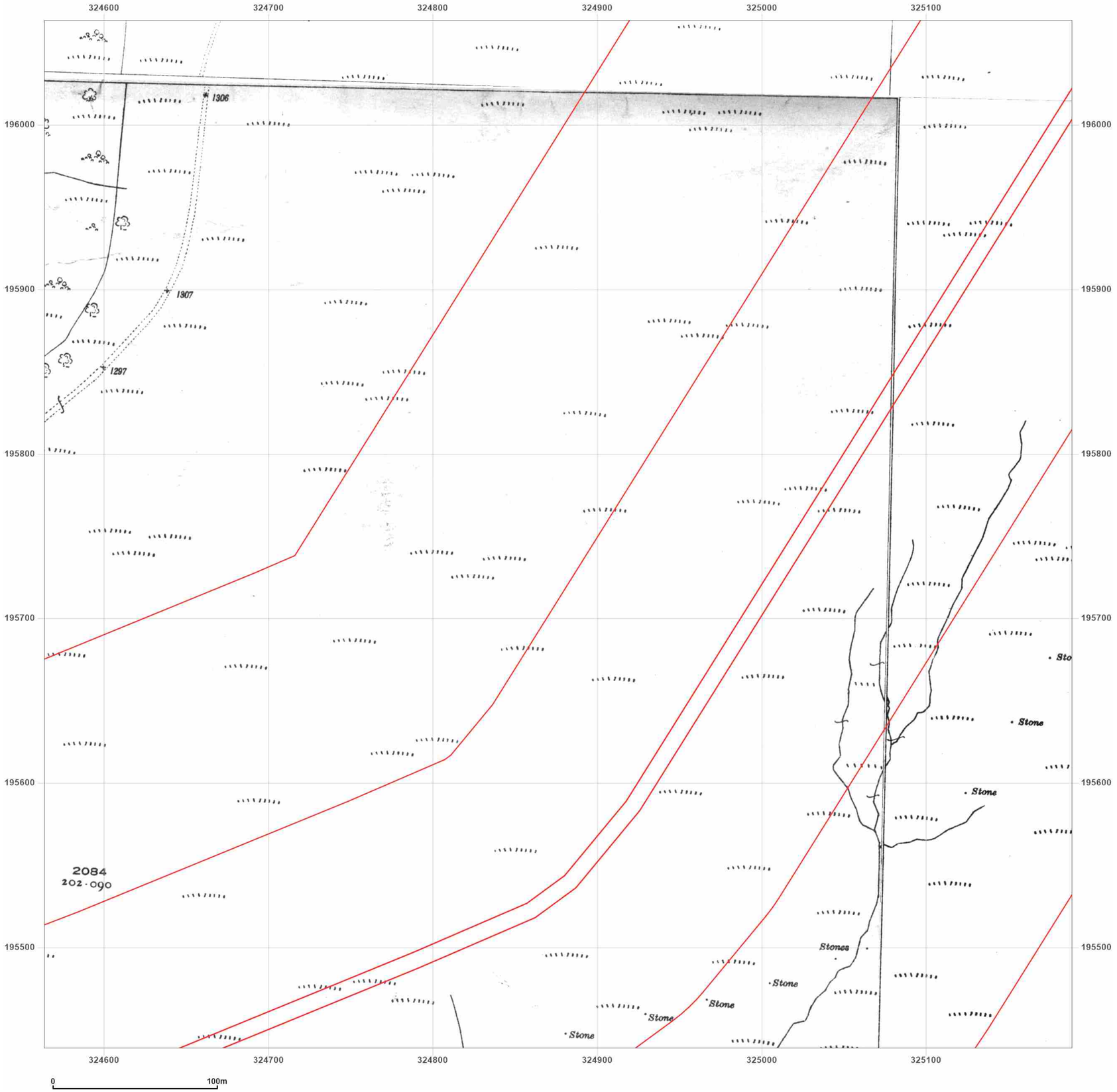
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Map legend available at:
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_3
Grid Ref: 324876, 195751

Map Name: County Series

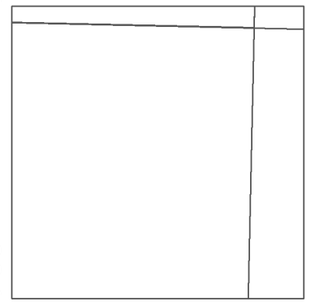
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

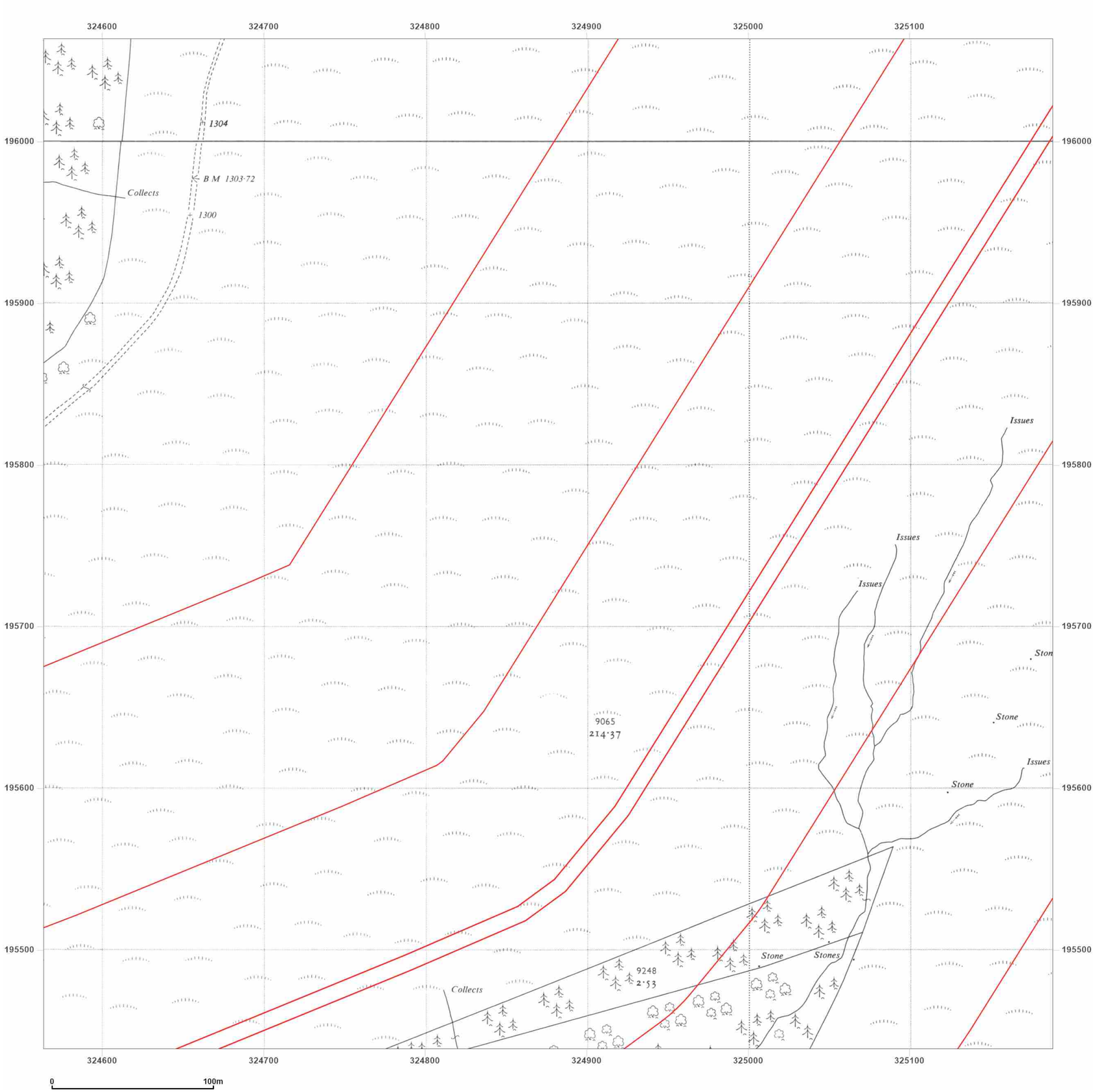
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_3
Grid Ref: 324876, 195751

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

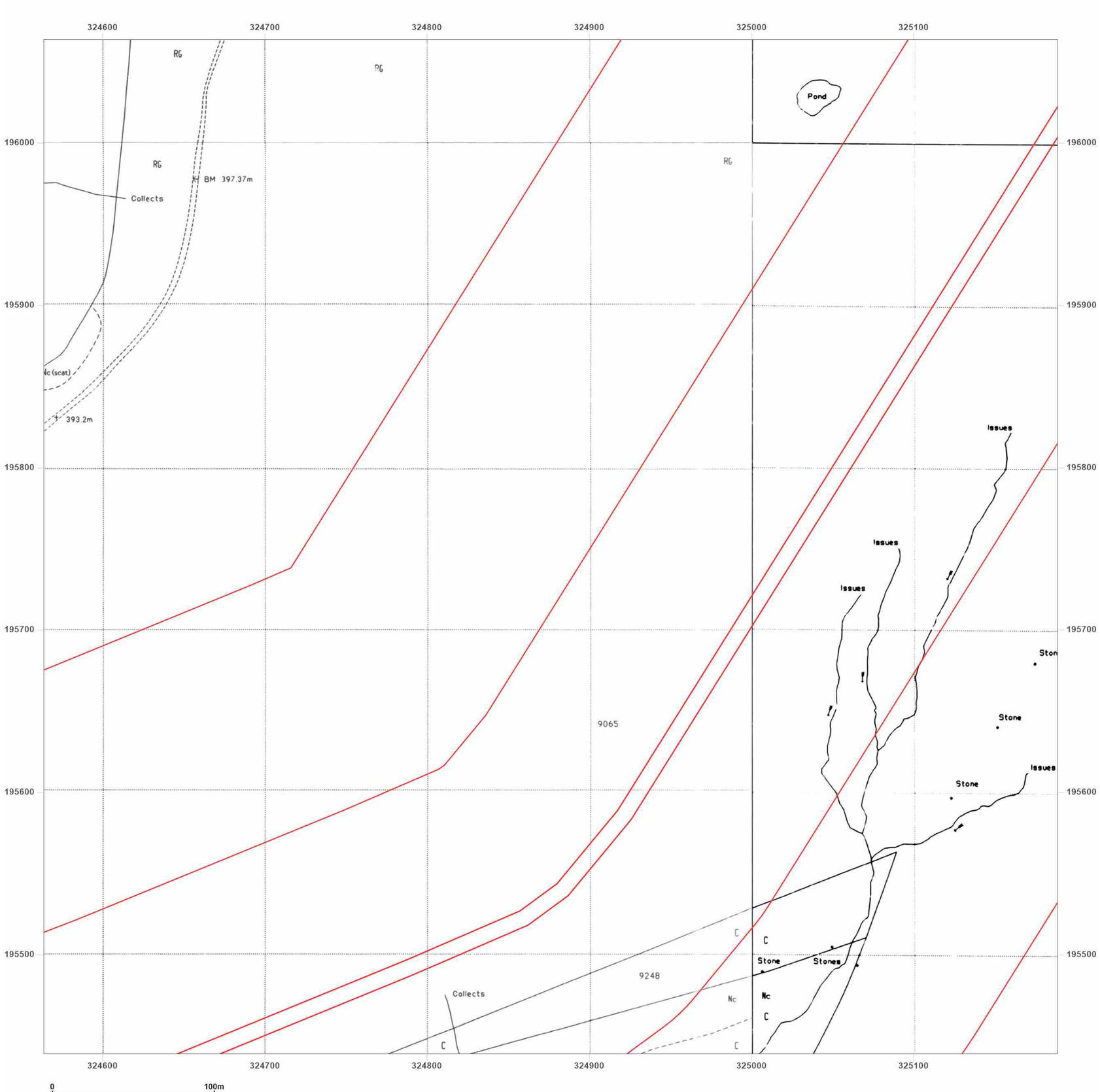
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_3
Grid Ref: 324876, 195751

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1993 Revised 1993 Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright 1993 Levelled N/A
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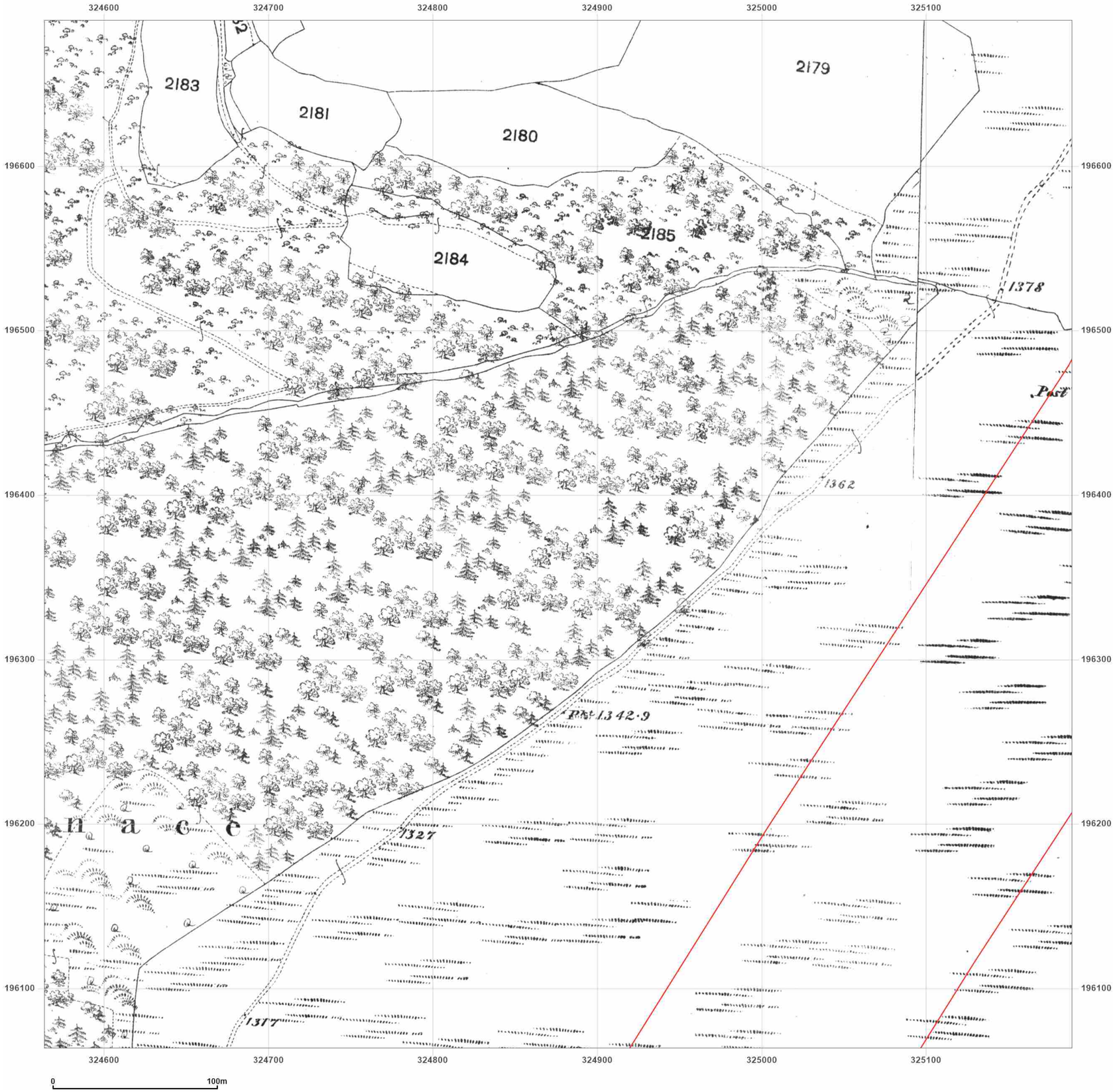
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_4
Grid Ref: 324876, 196376

Map Name: County Series

Map date: **1879-1882**

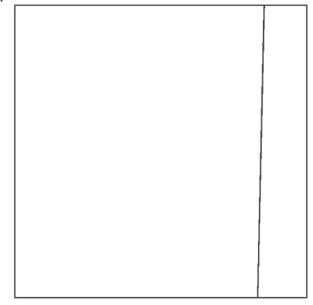
Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1879
Revised 1879
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



Groundsure INSIGHTS

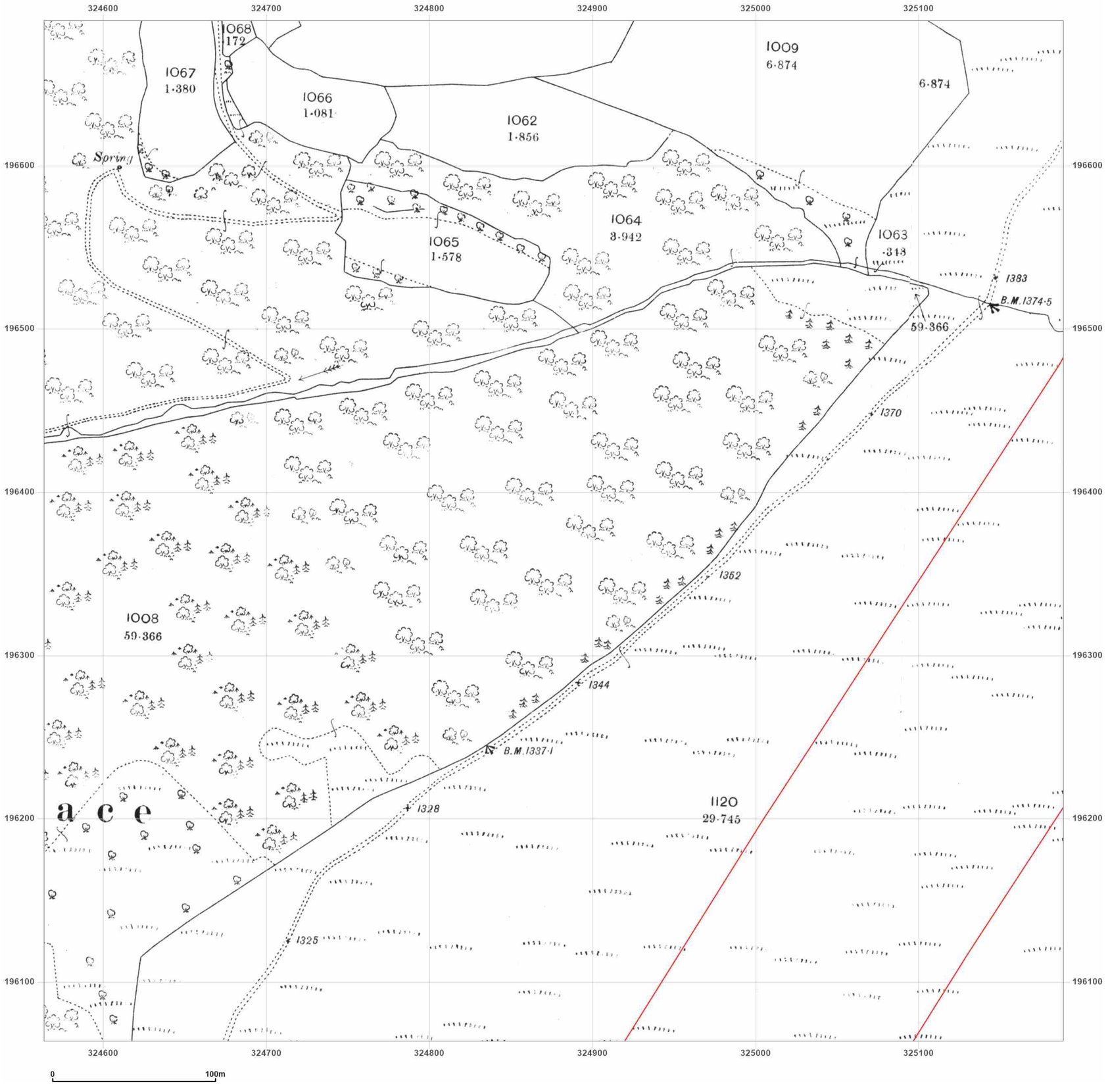
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_4
Grid Ref: 324876, 196376

Map Name: County Series

Map date: **1901**

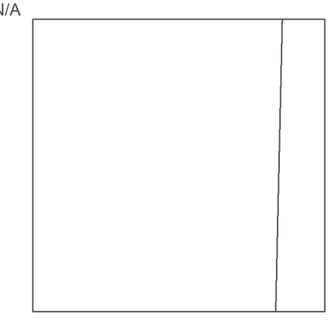
Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Groundsure INSIGHTS

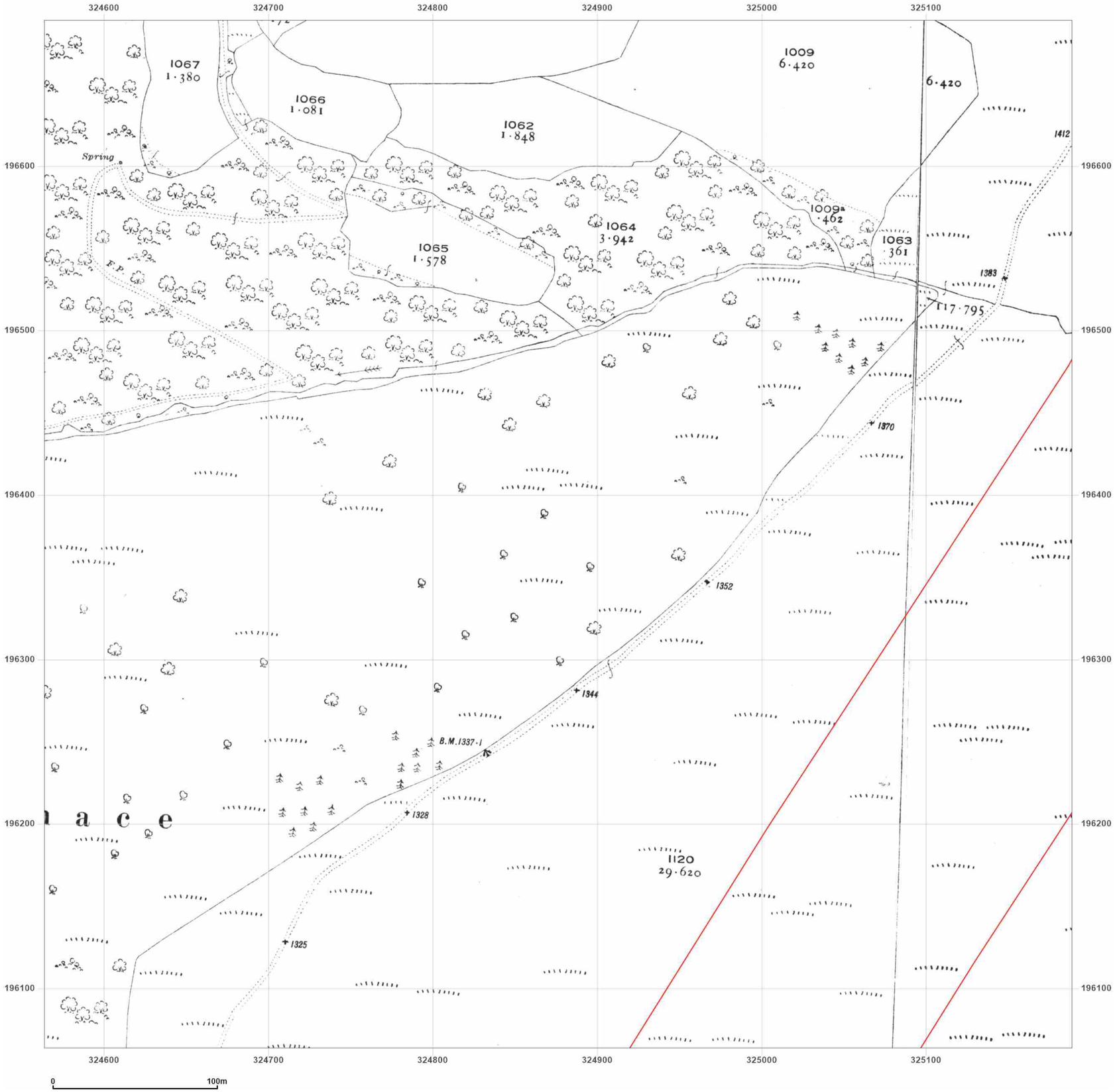
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_4
Grid Ref: 324876, 196376

Map Name: County Series

Map date: **1920**

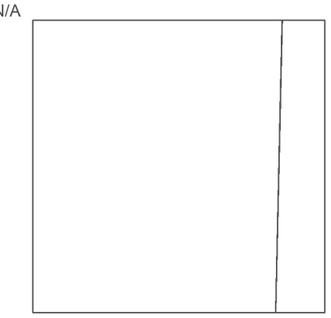
Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_4
Grid Ref: 324876, 196376

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

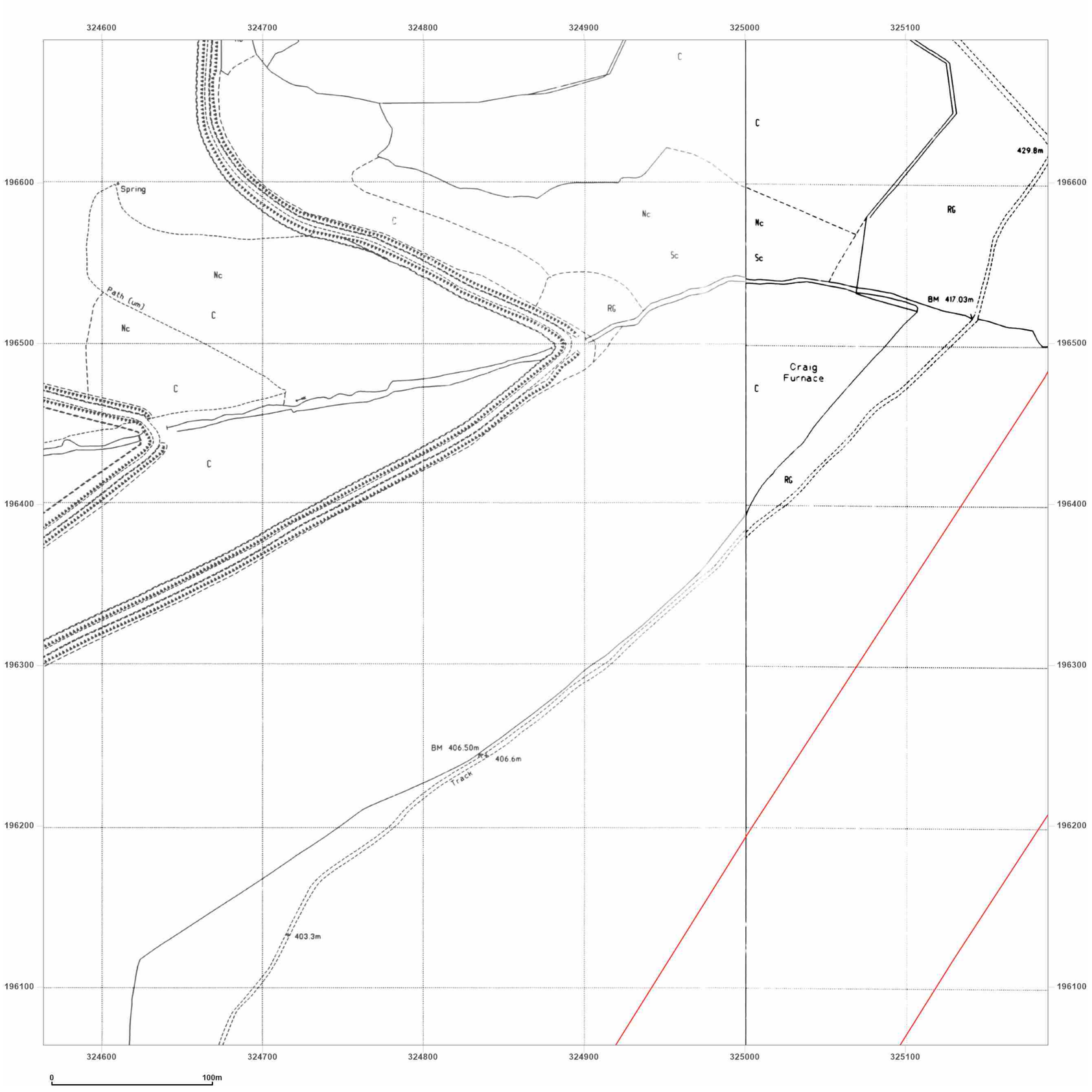
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_4
Grid Ref: 324876, 196376

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1993	Surveyed N/A
Revised 1993	Revised N/A
Edition N/A	Edition N/A
Copyright N/A	Copyright 1993
Levelled N/A	Levelled N/A

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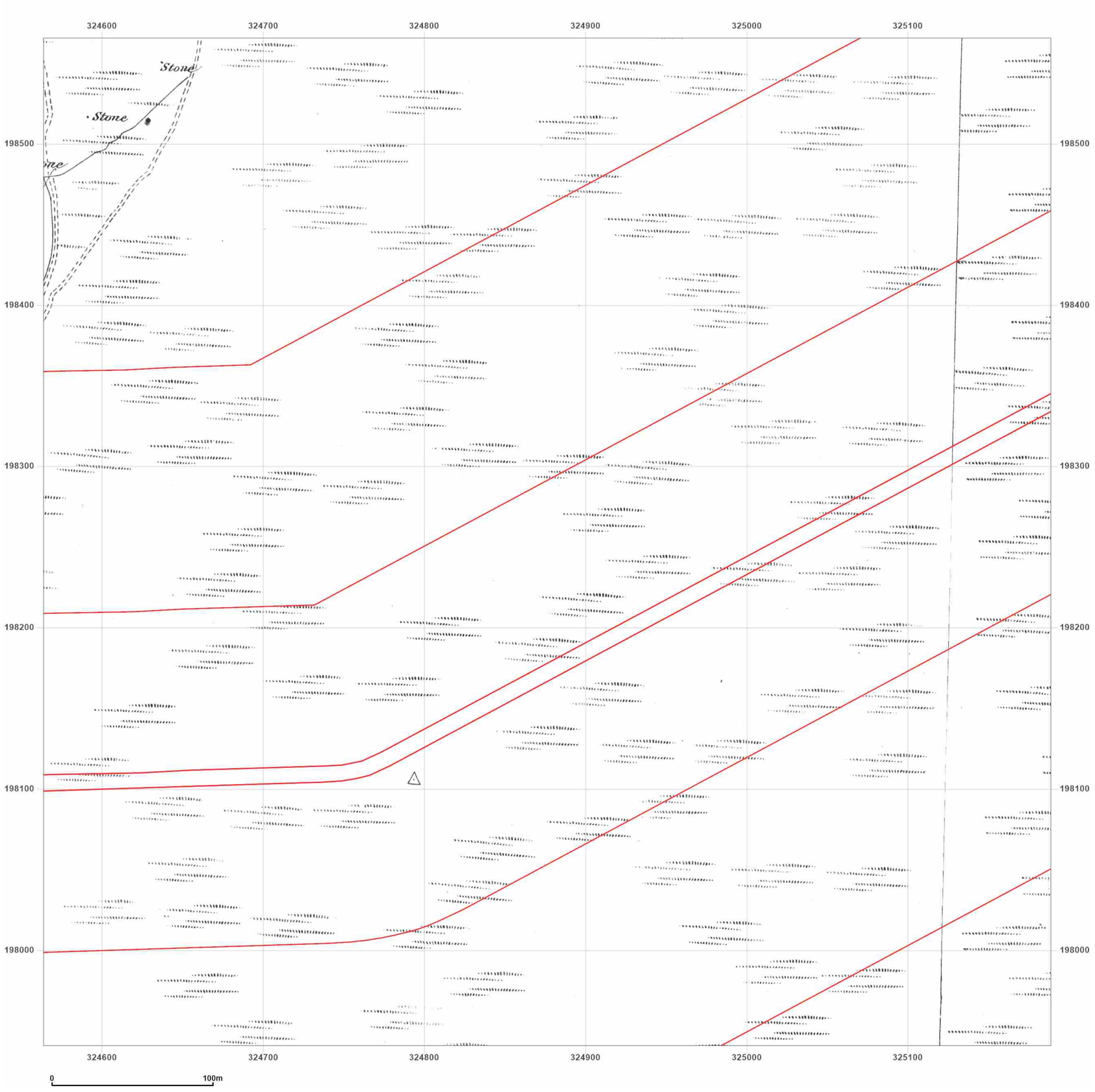
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_7
Grid Ref: 324876, 198253

Map Name: County Series

Map date: **1880-1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1880
Revised 1880
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

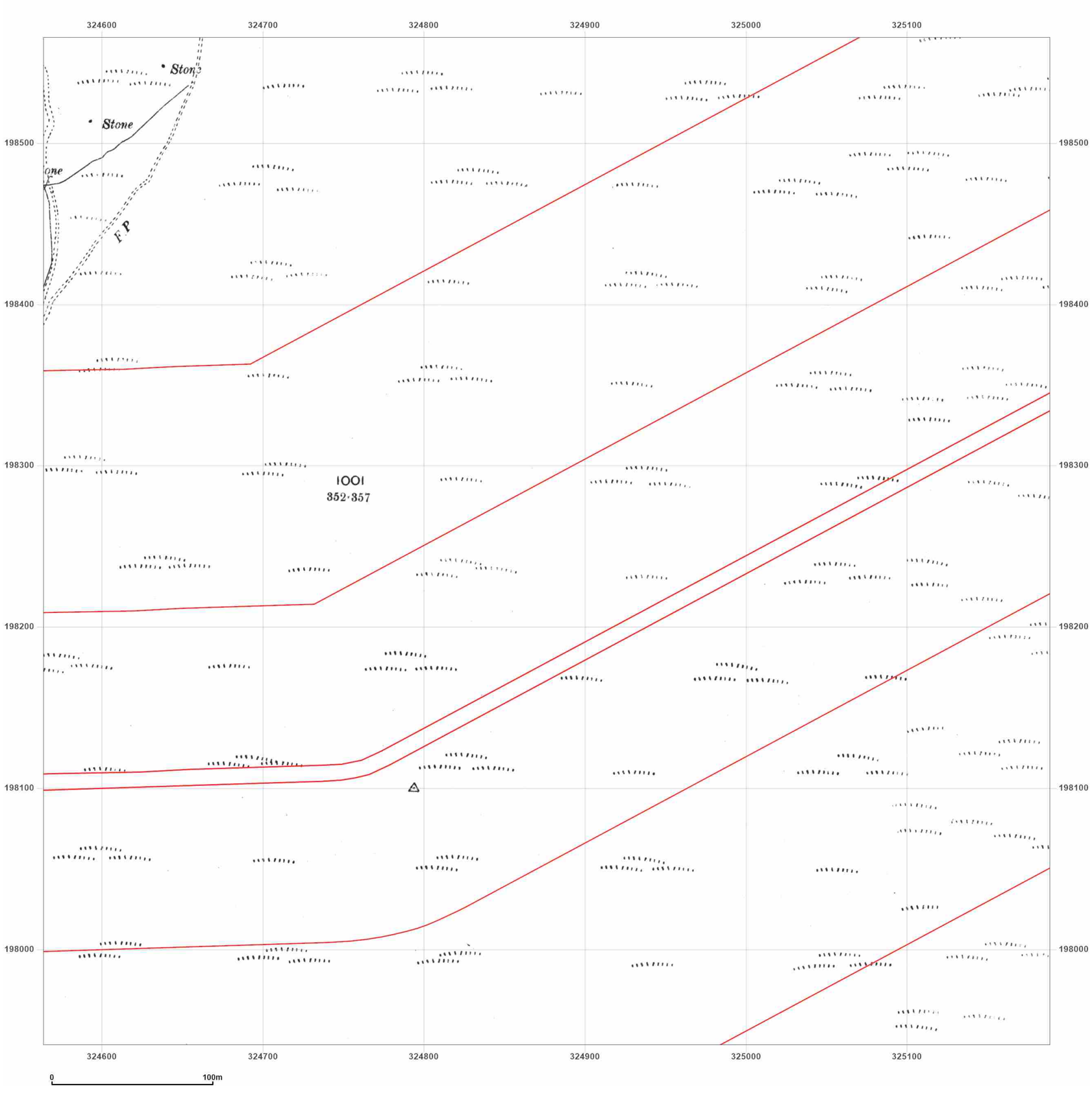
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_7
Grid Ref: 324876, 198253

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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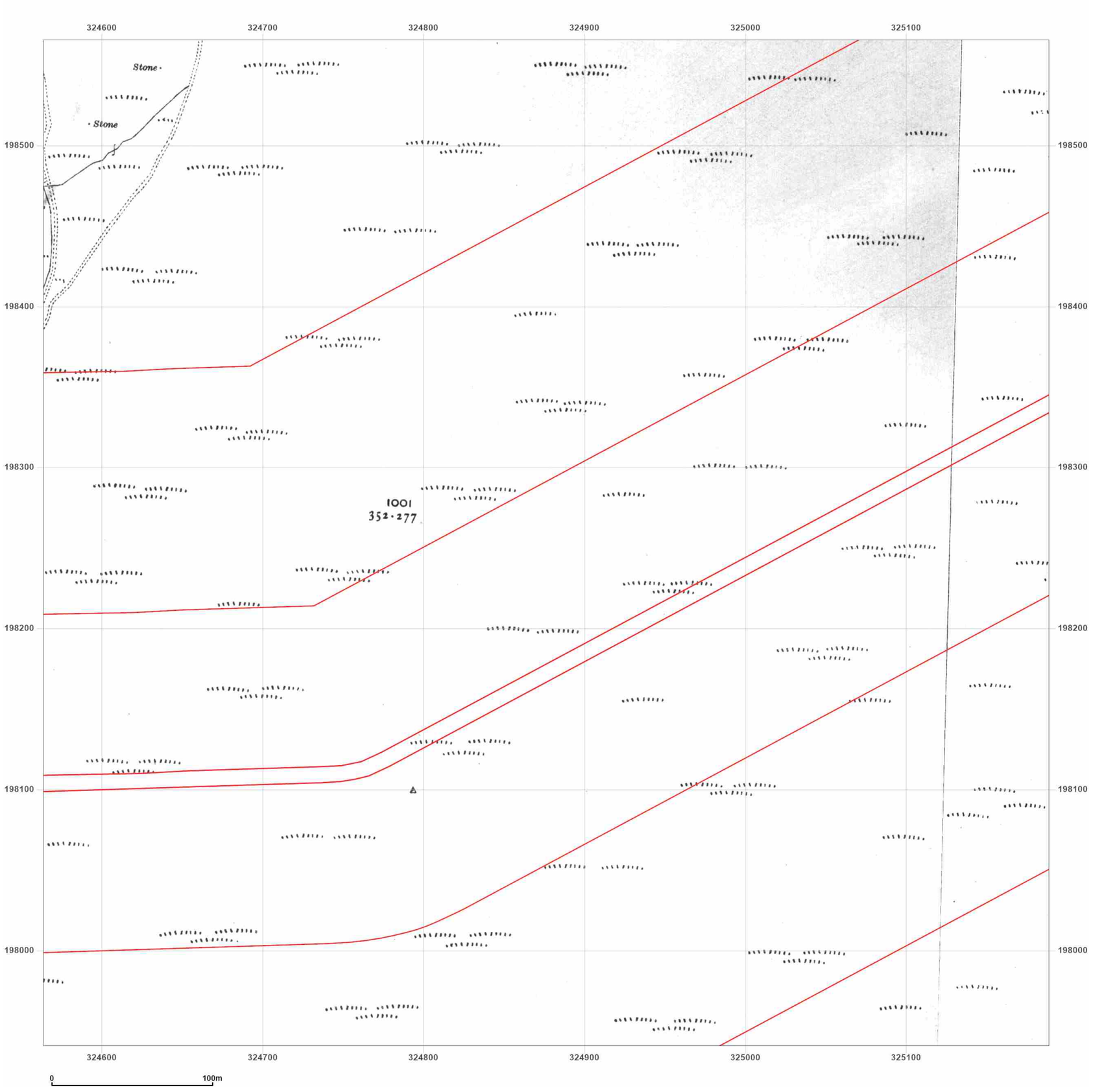
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_7
Grid Ref: 324876, 198253

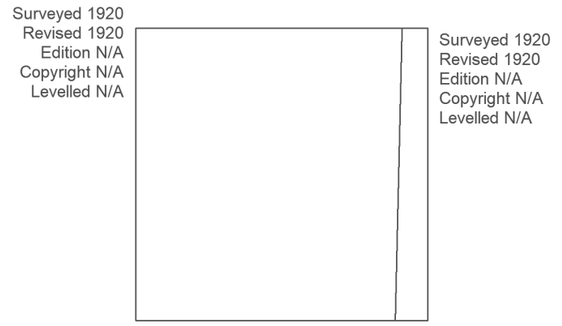
Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
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Groundsure INSIGHTS

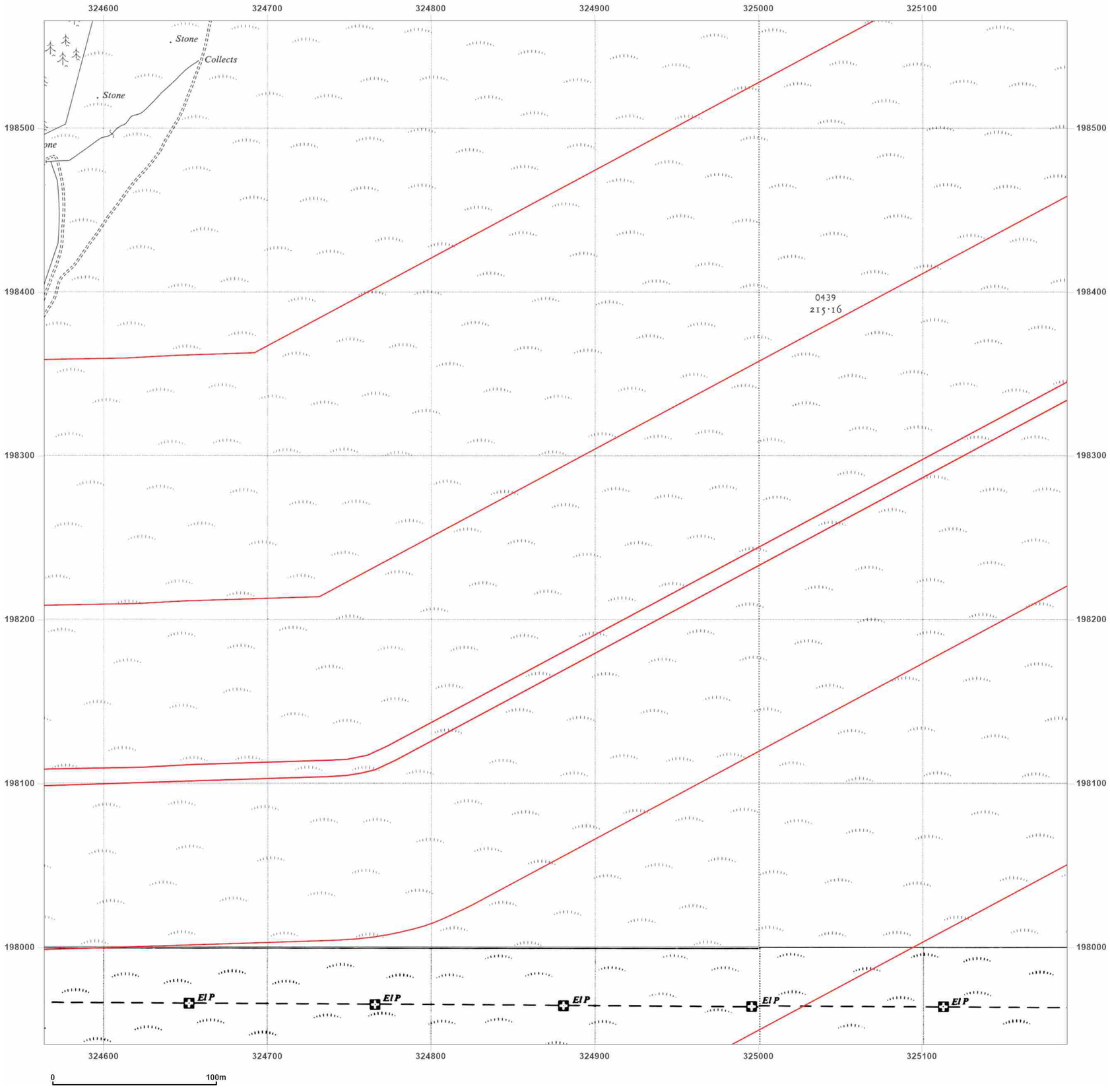
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_7
Grid Ref: 324876, 198253

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

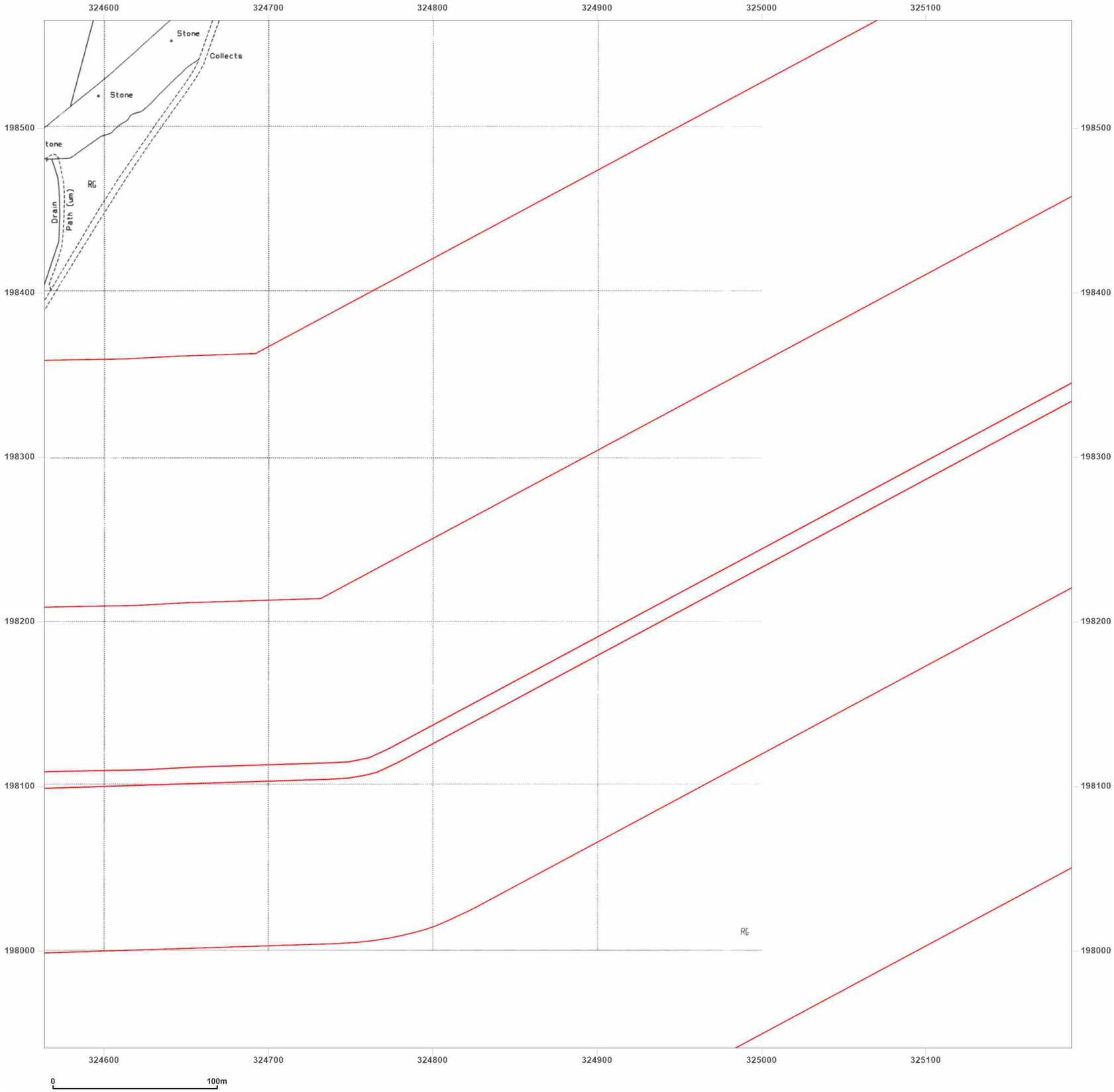
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_5_7
Grid Ref: 324876, 198253

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1993
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

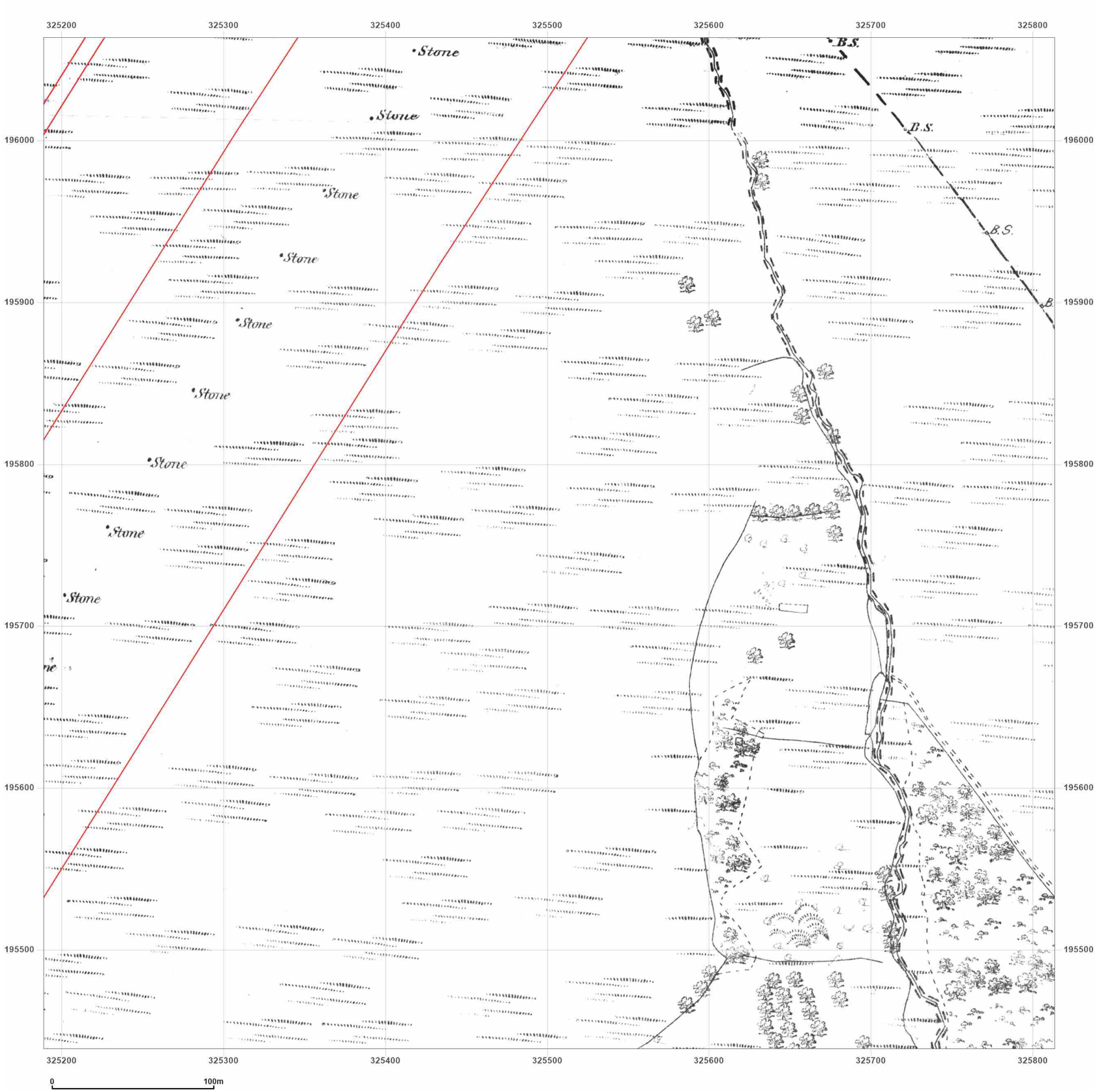
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_3
Grid Ref: 325501, 195751

Map Name: County Series

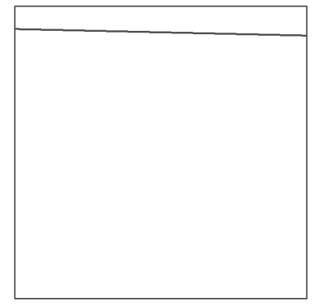
Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

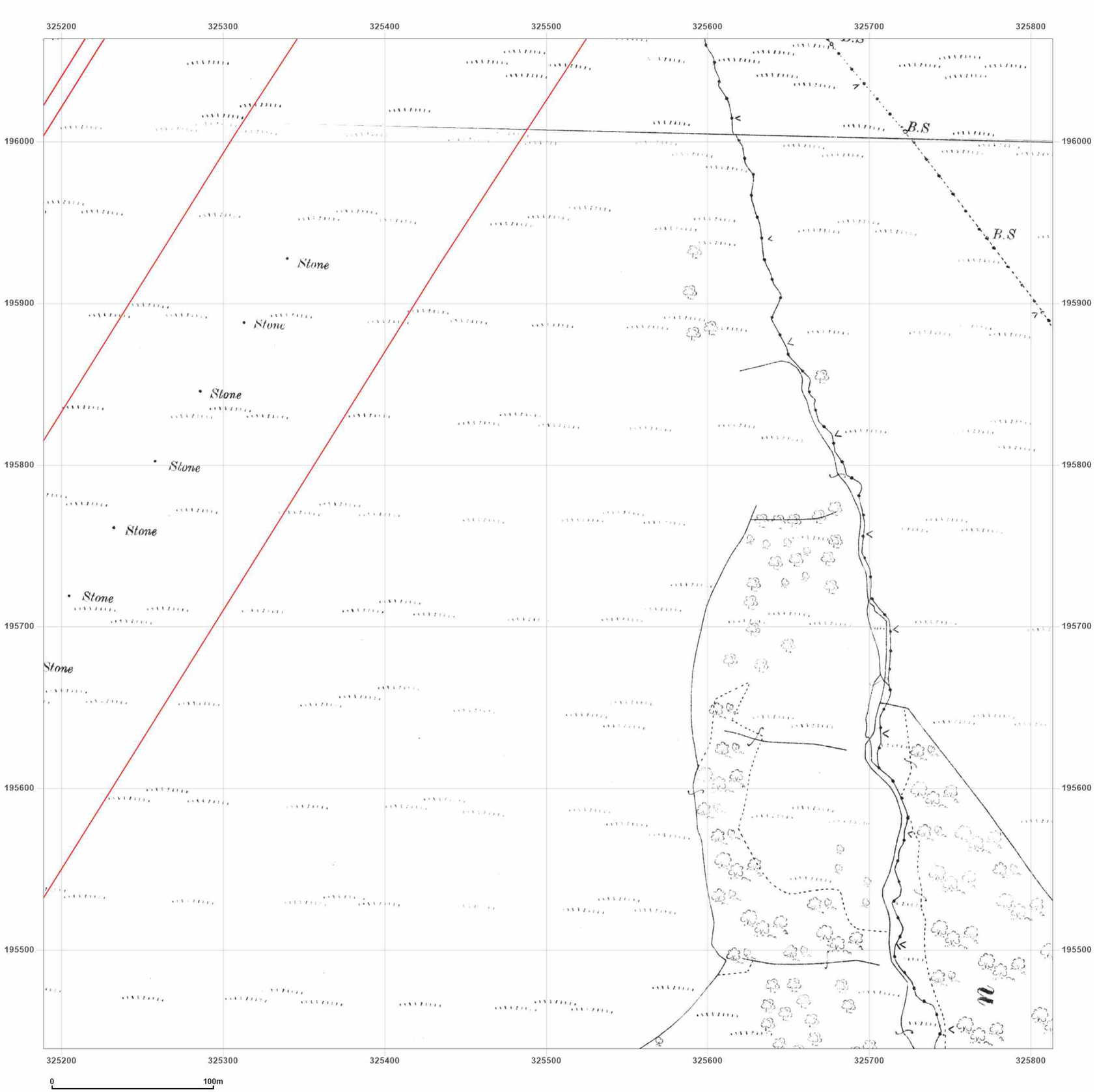
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_3
Grid Ref: 325501, 195751

Map Name: County Series

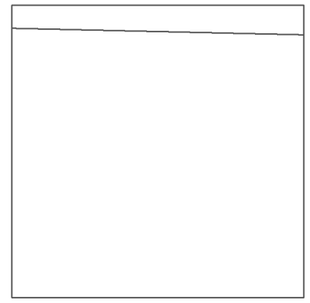
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

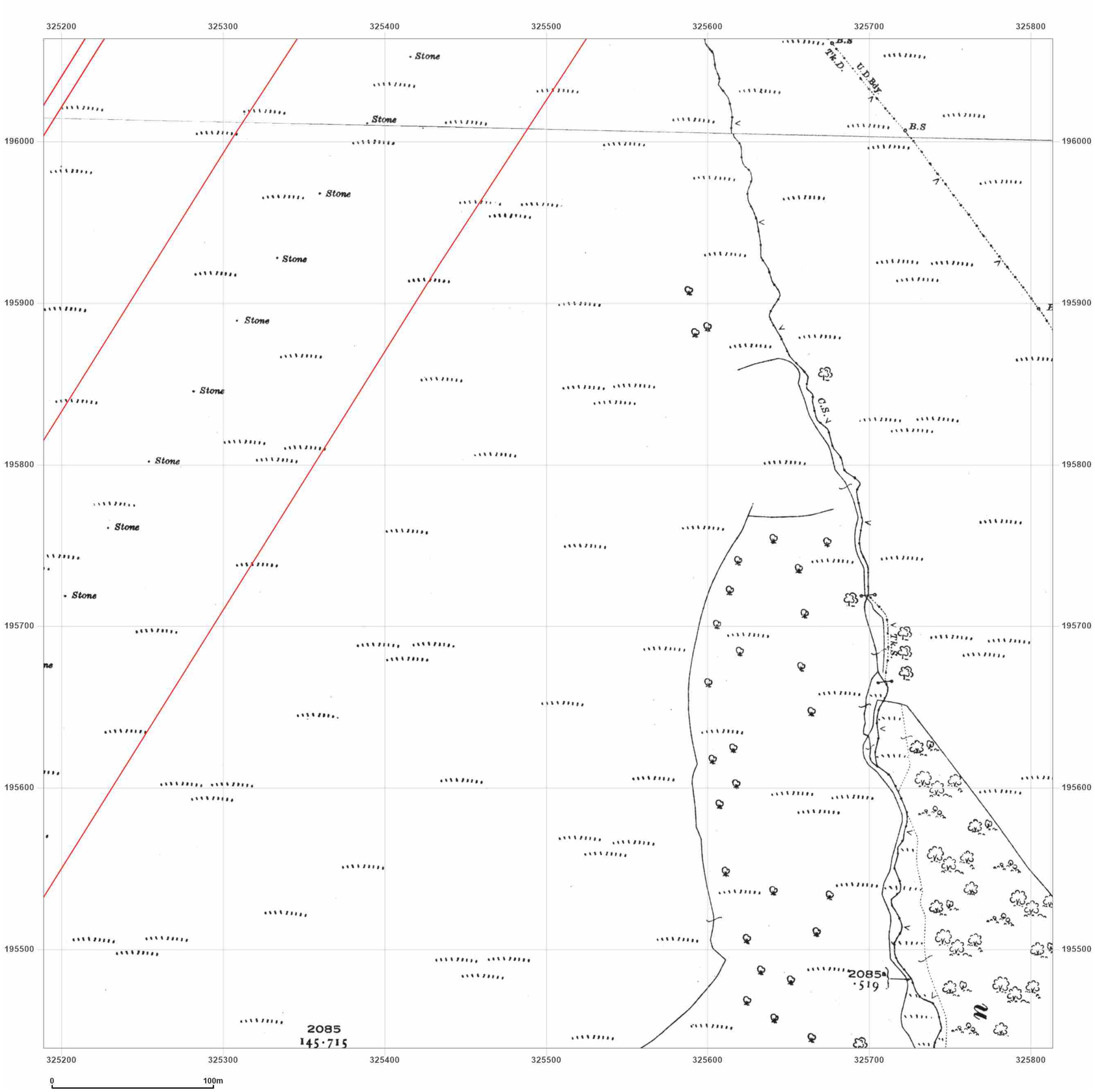
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_3
Grid Ref: 325501, 195751

Map Name: County Series

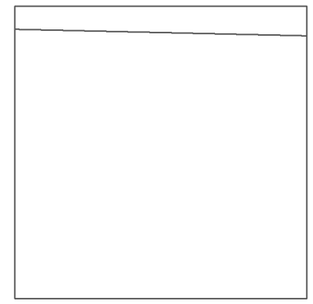
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

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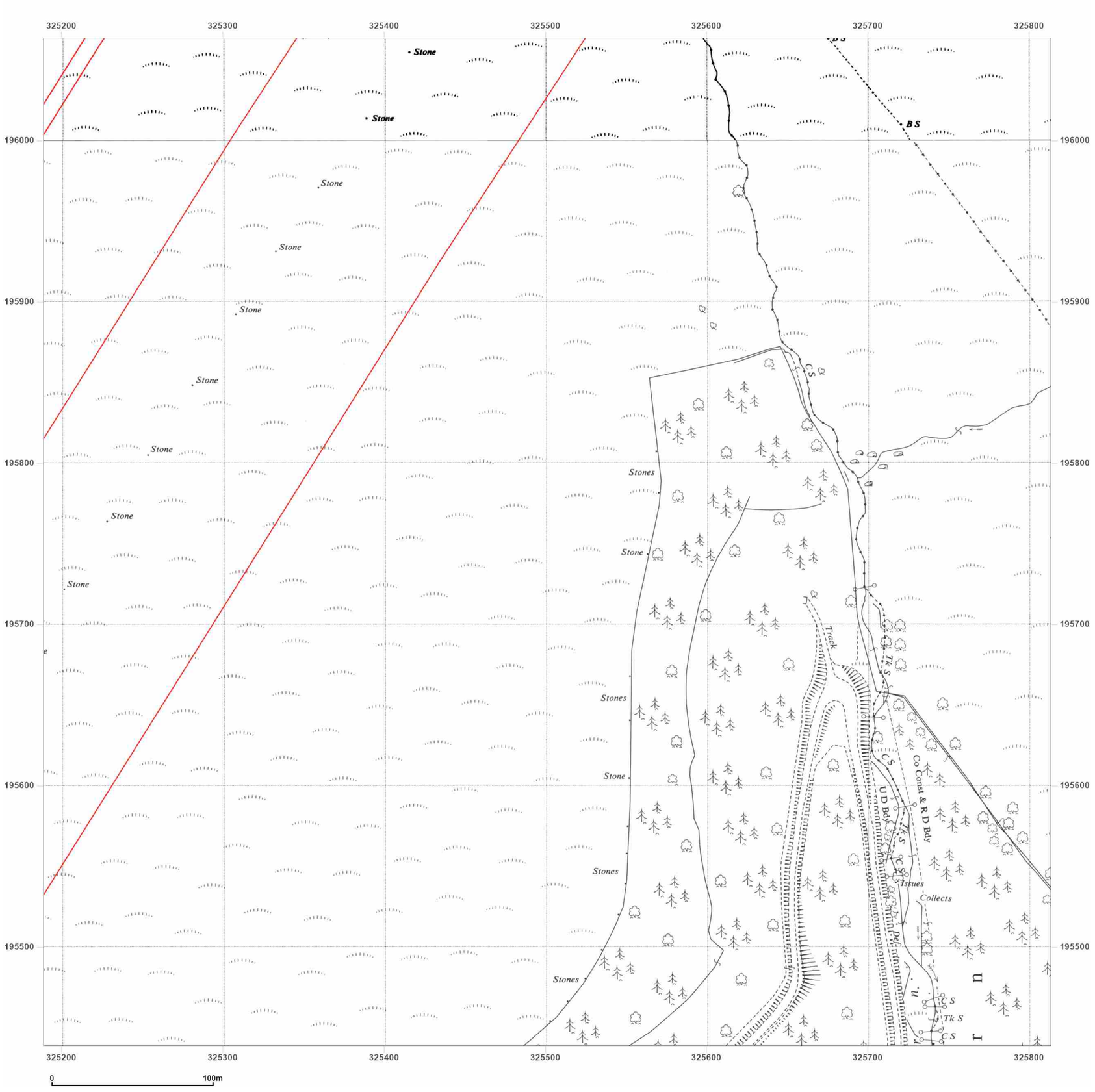
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_3
Grid Ref: 325501, 195751

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

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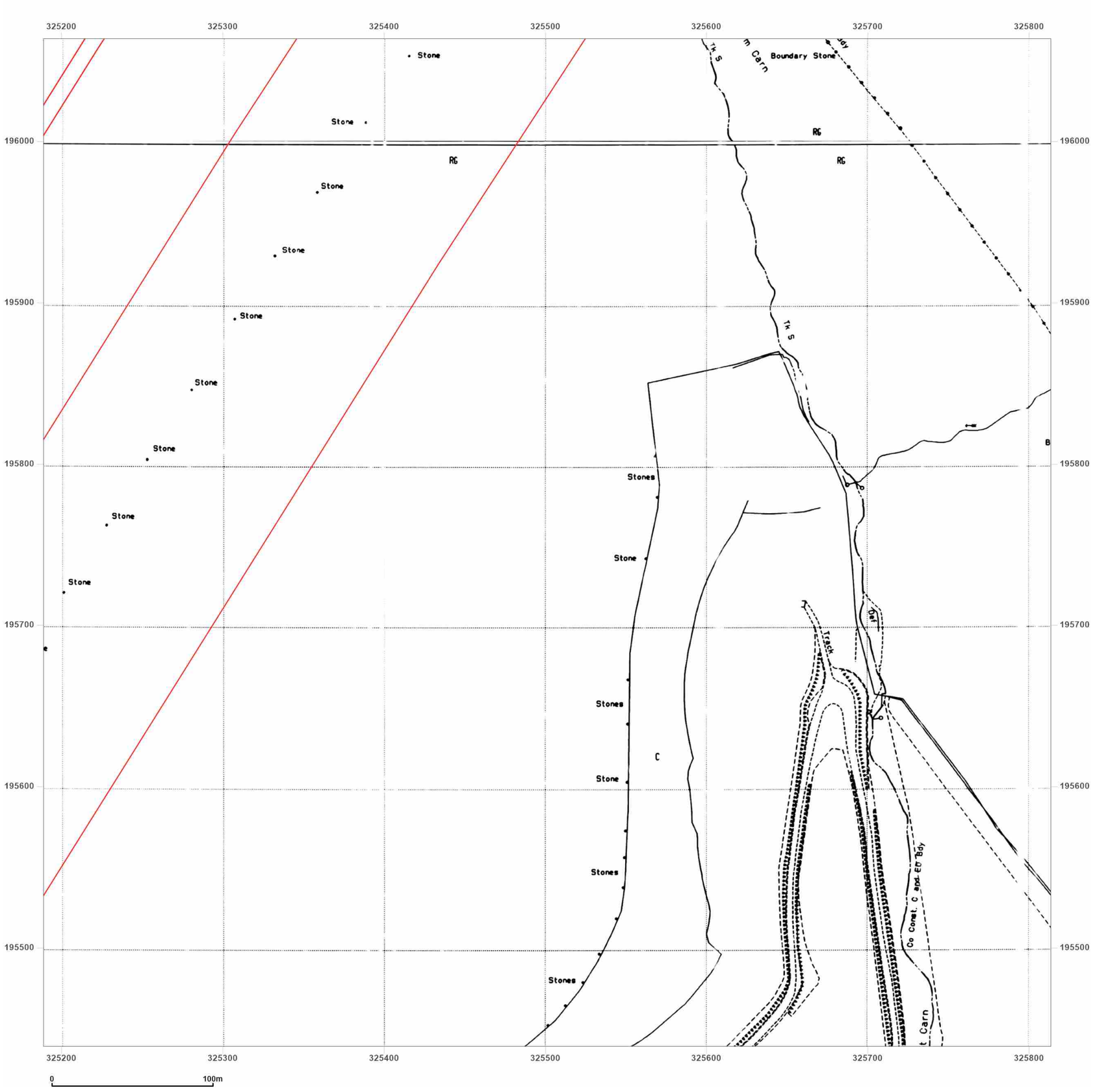
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_3
Grid Ref: 325501, 195751

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Groundsure INSIGHTS

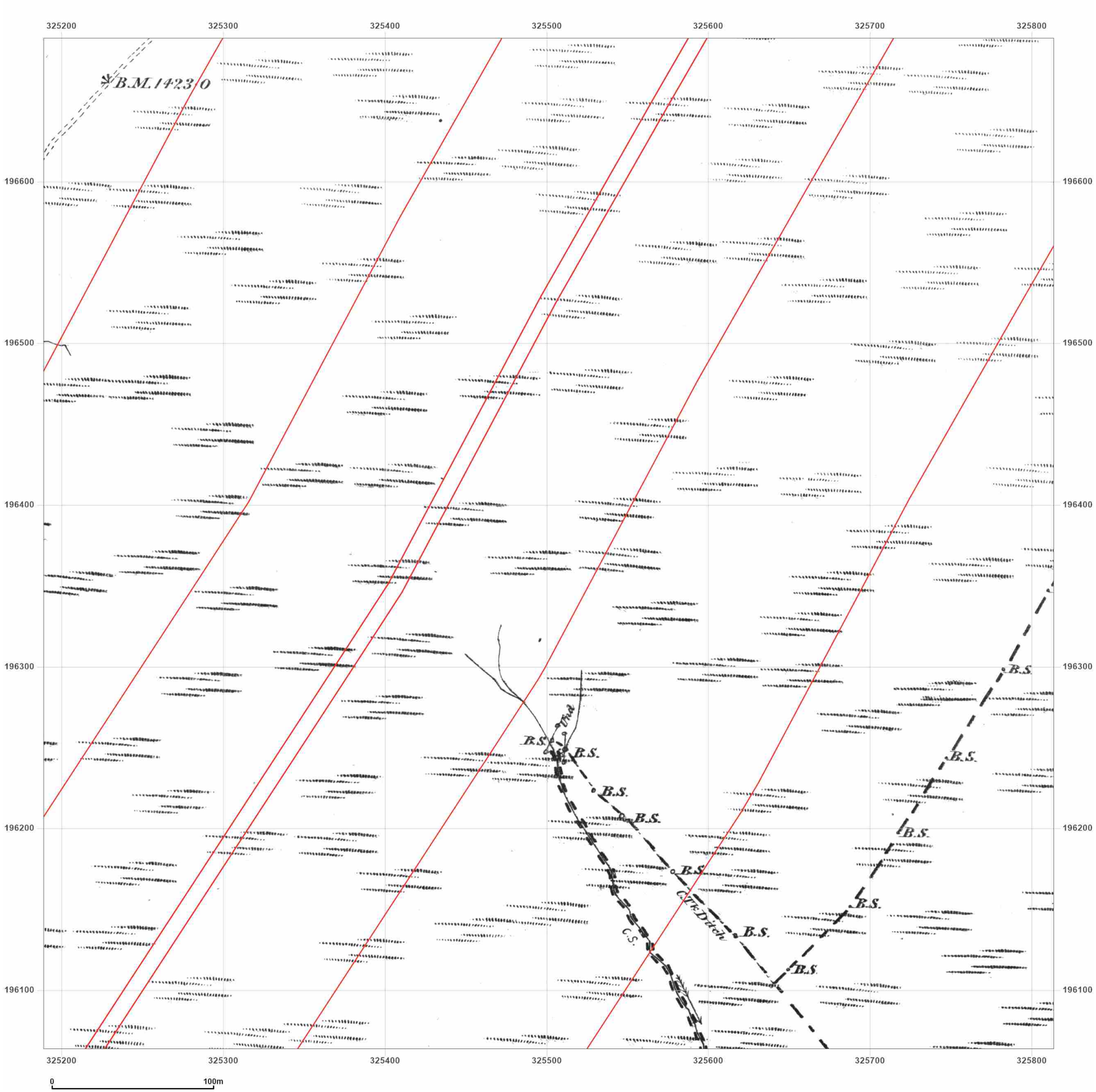
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_4
Grid Ref: 325501, 196376

Map Name: County Series

Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

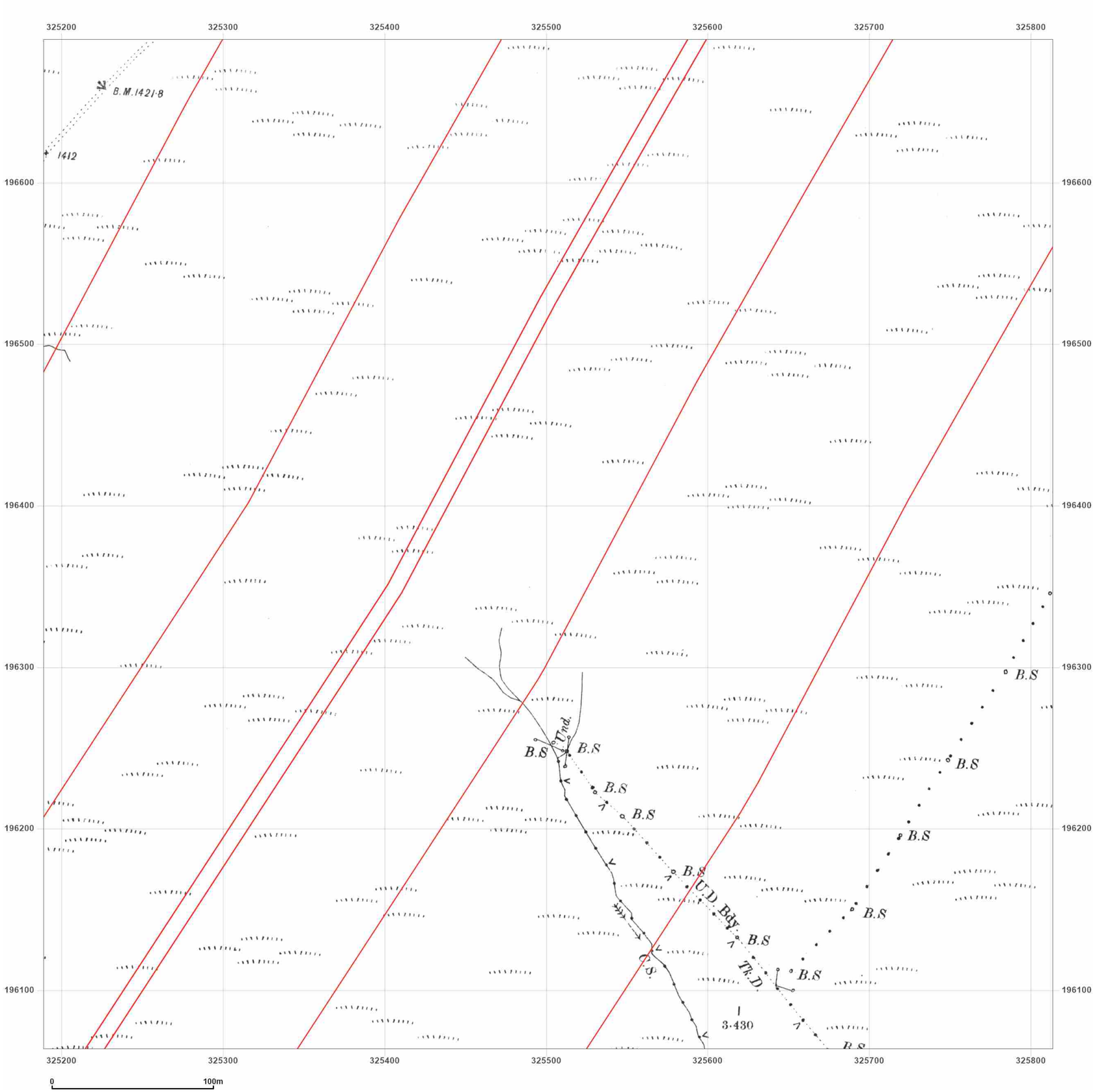
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_4
Grid Ref: 325501, 196376

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

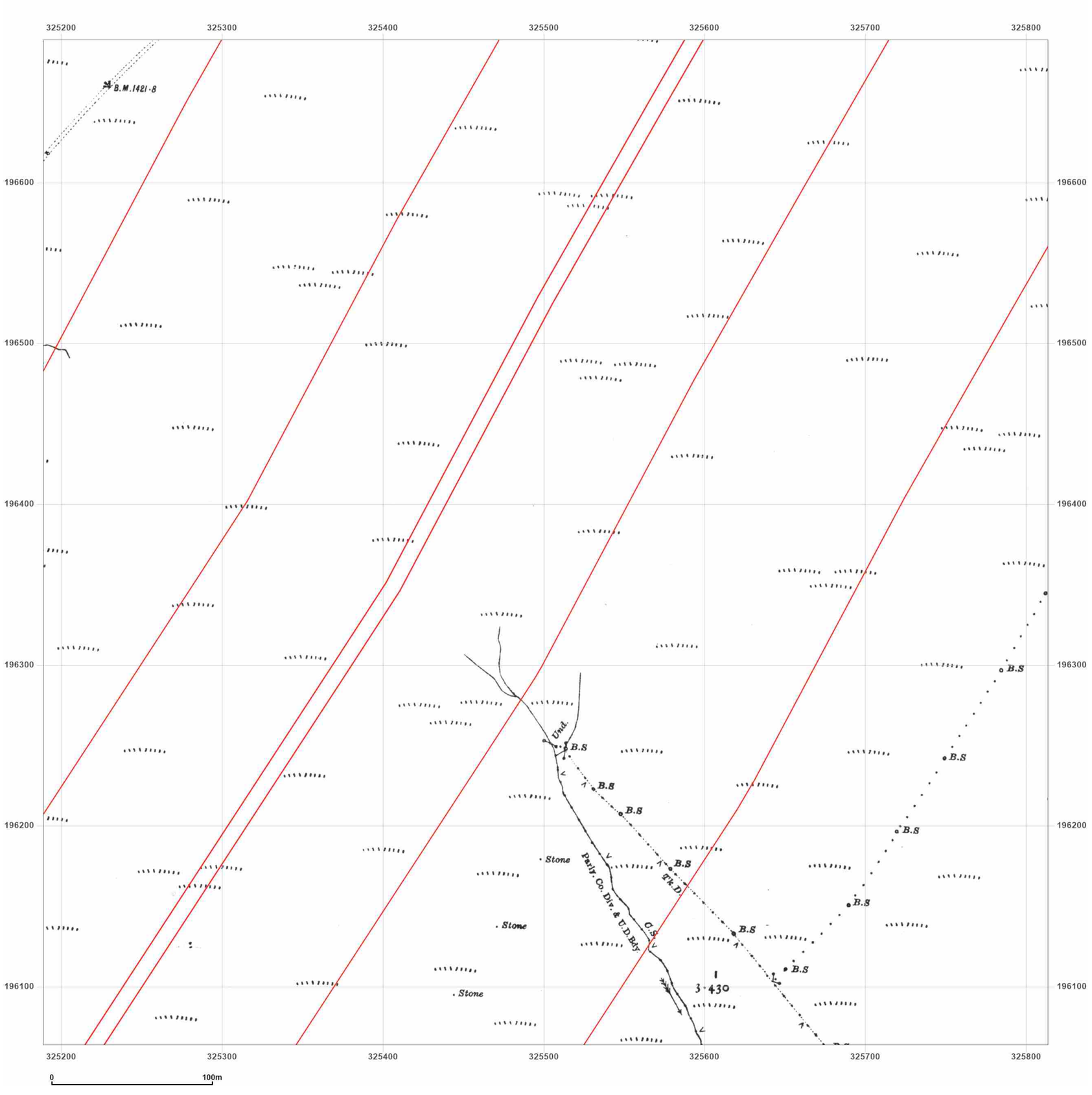
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WSP

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_4
Grid Ref: 325501, 196376

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

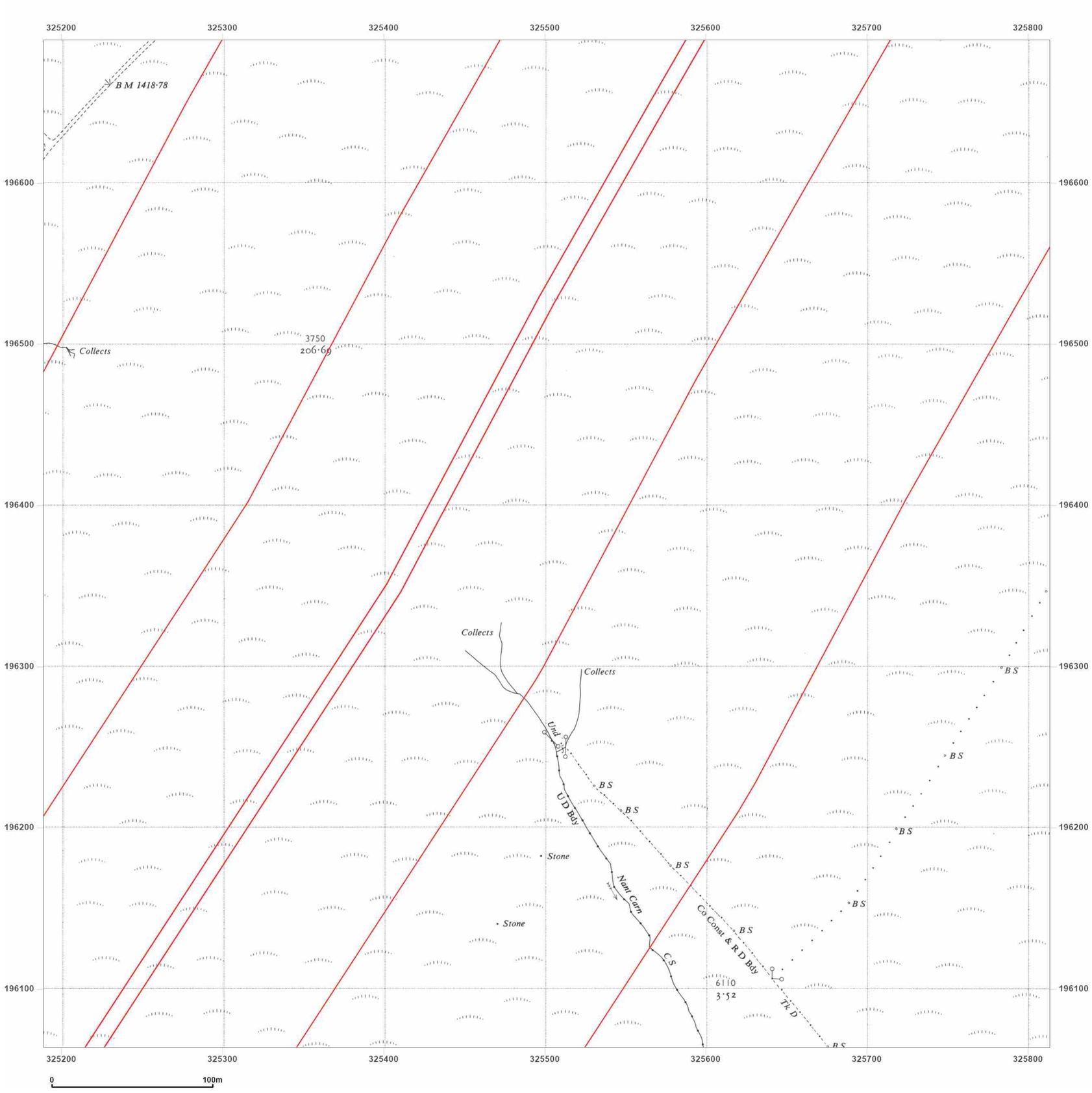
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_4
Grid Ref: 325501, 196376

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

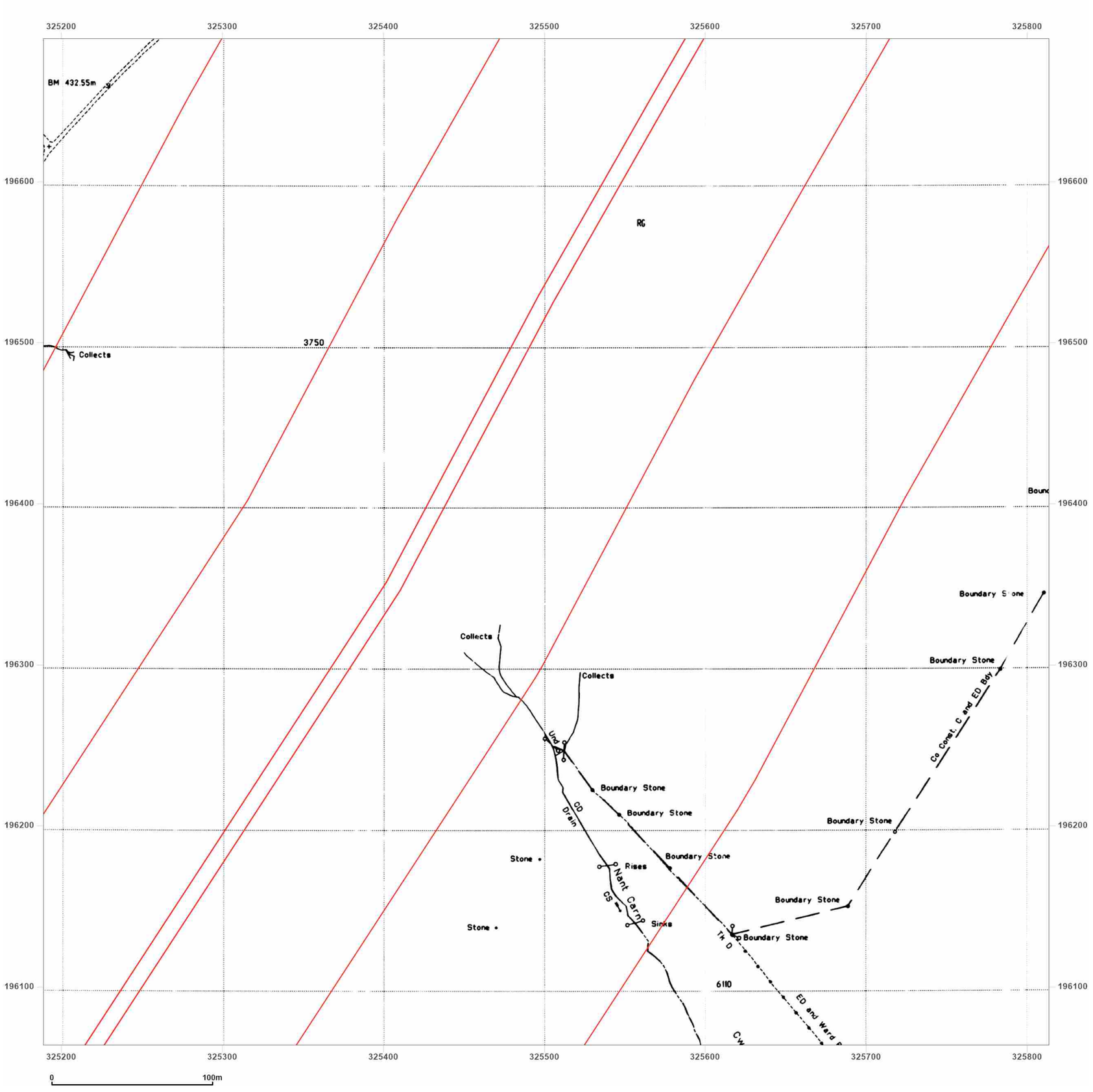
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_4
Grid Ref: 325501, 196376

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Groundsure INSIGHTS

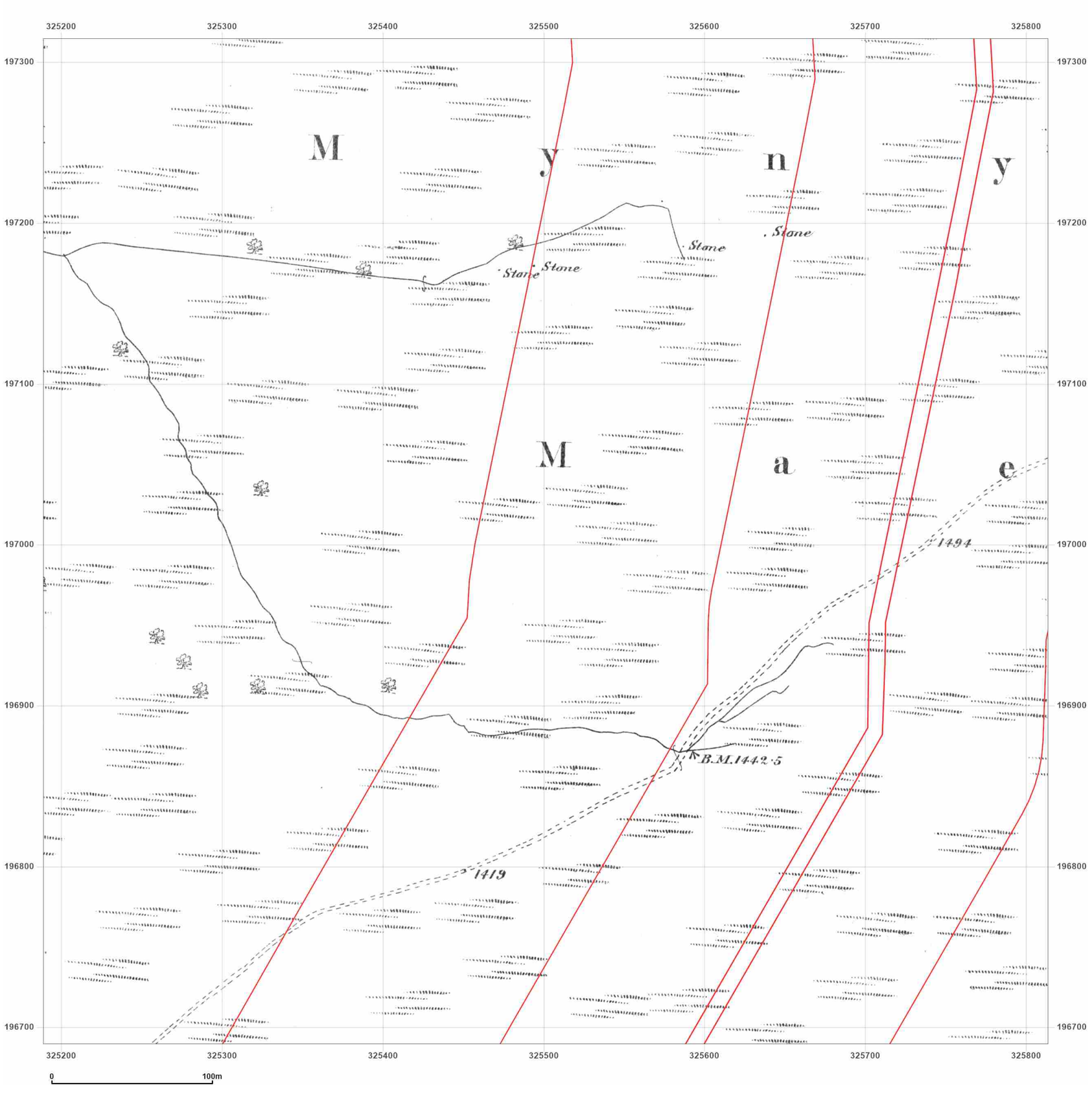
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_5
Grid Ref: 325501, 197002

Map Name: County Series

Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

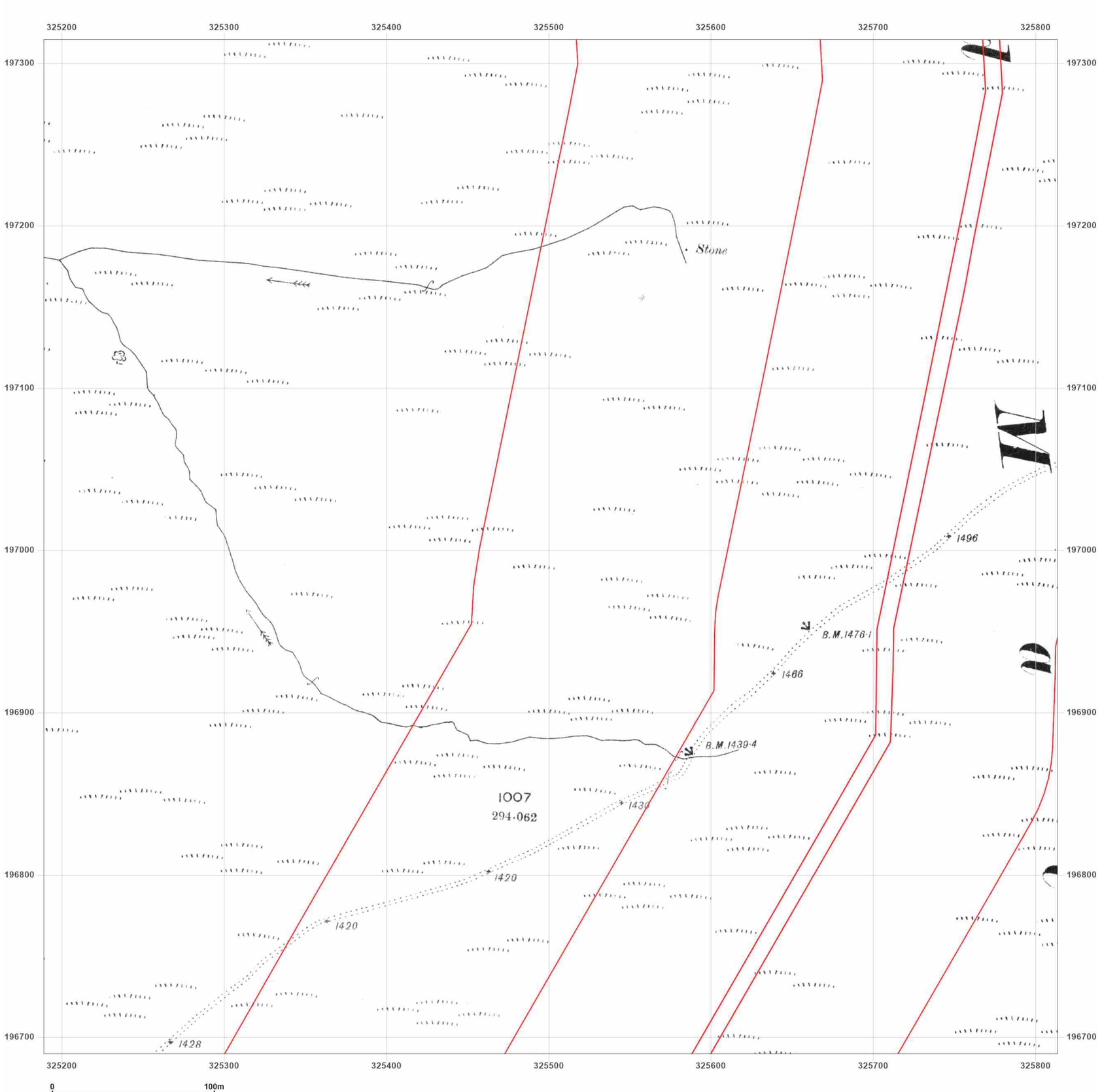
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_5
Grid Ref: 325501, 197002

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

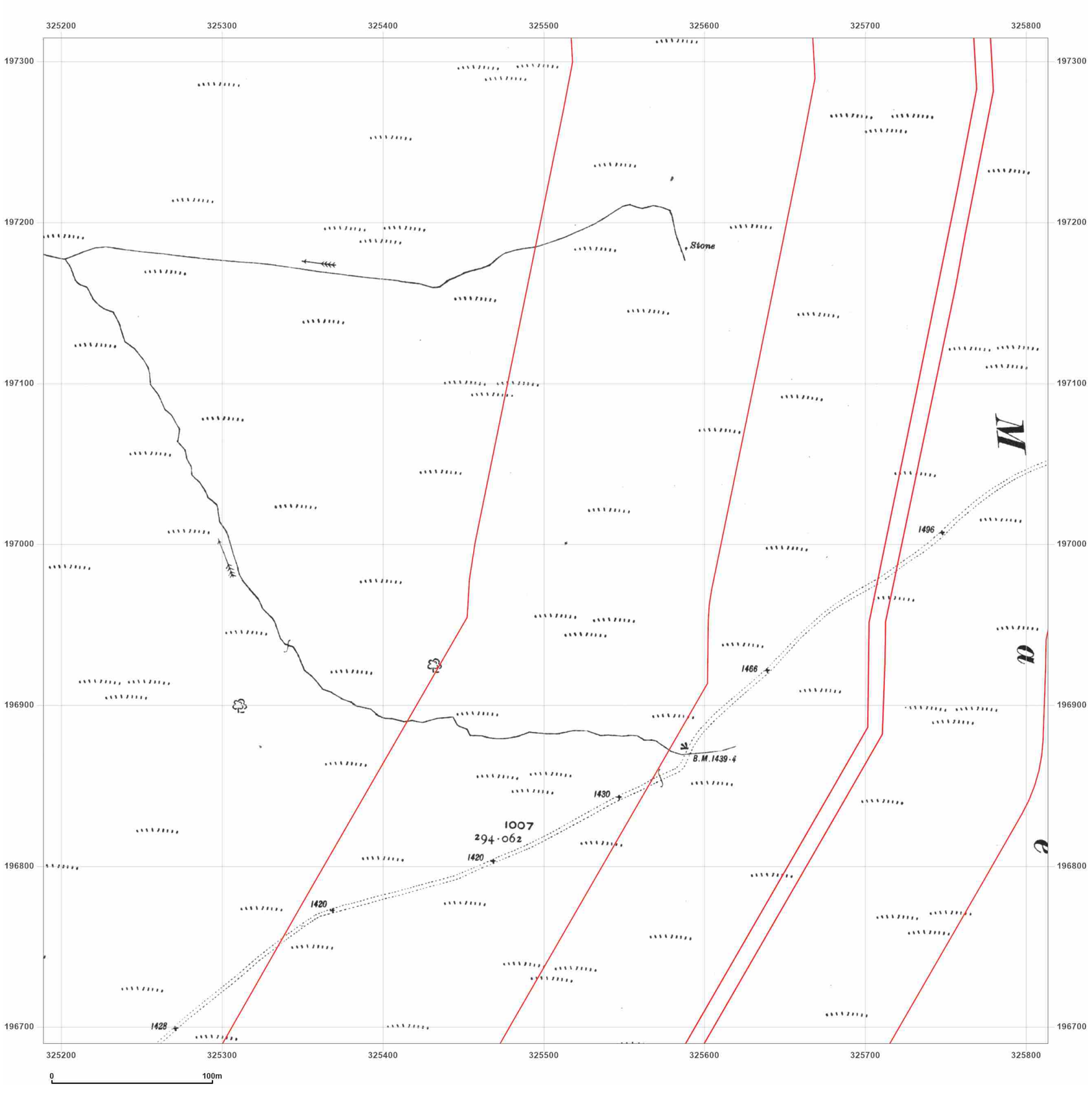
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_5
Grid Ref: 325501, 197002

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

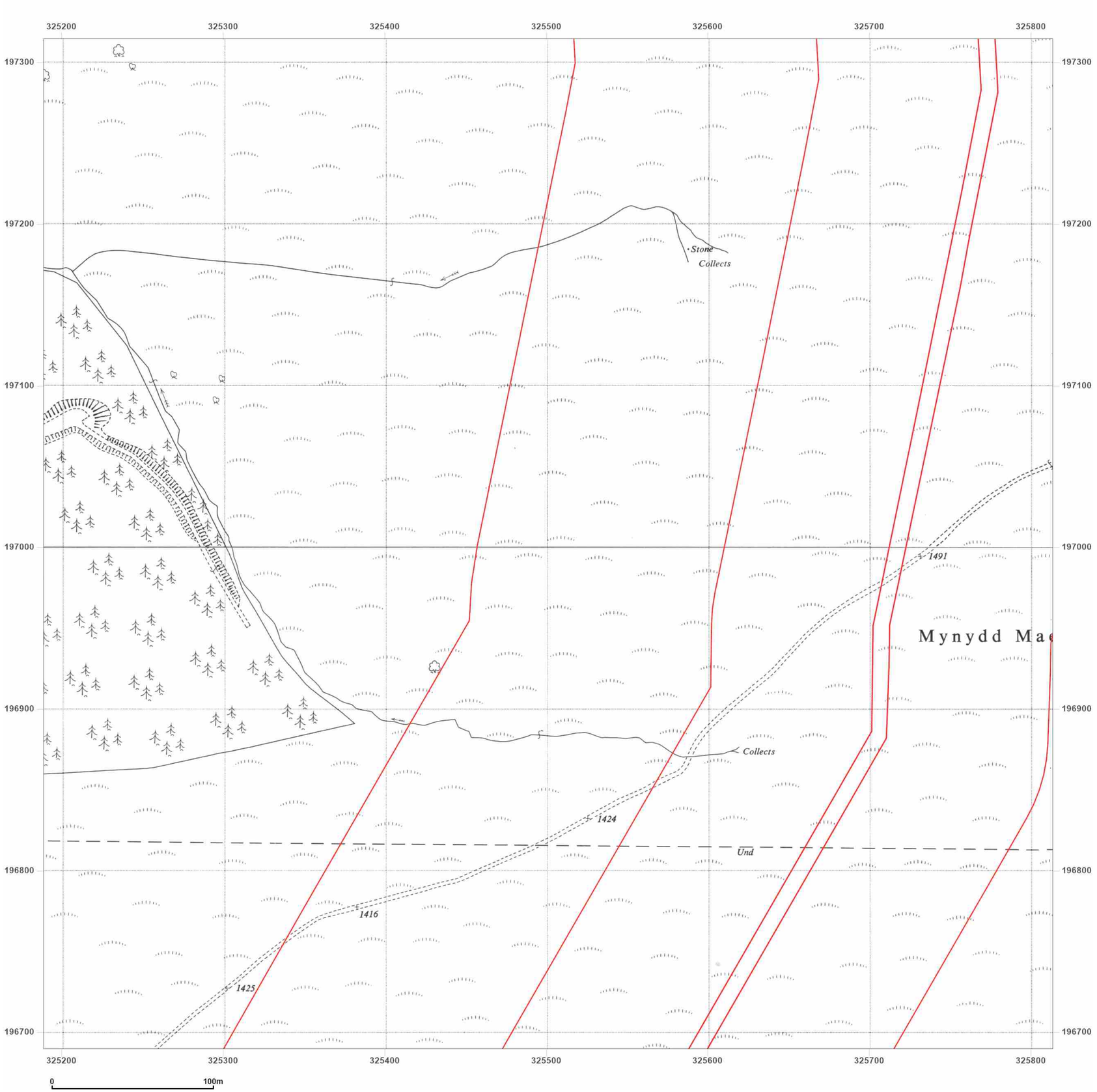
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_5
Grid Ref: 325501, 197002

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Groundsure INSIGHTS

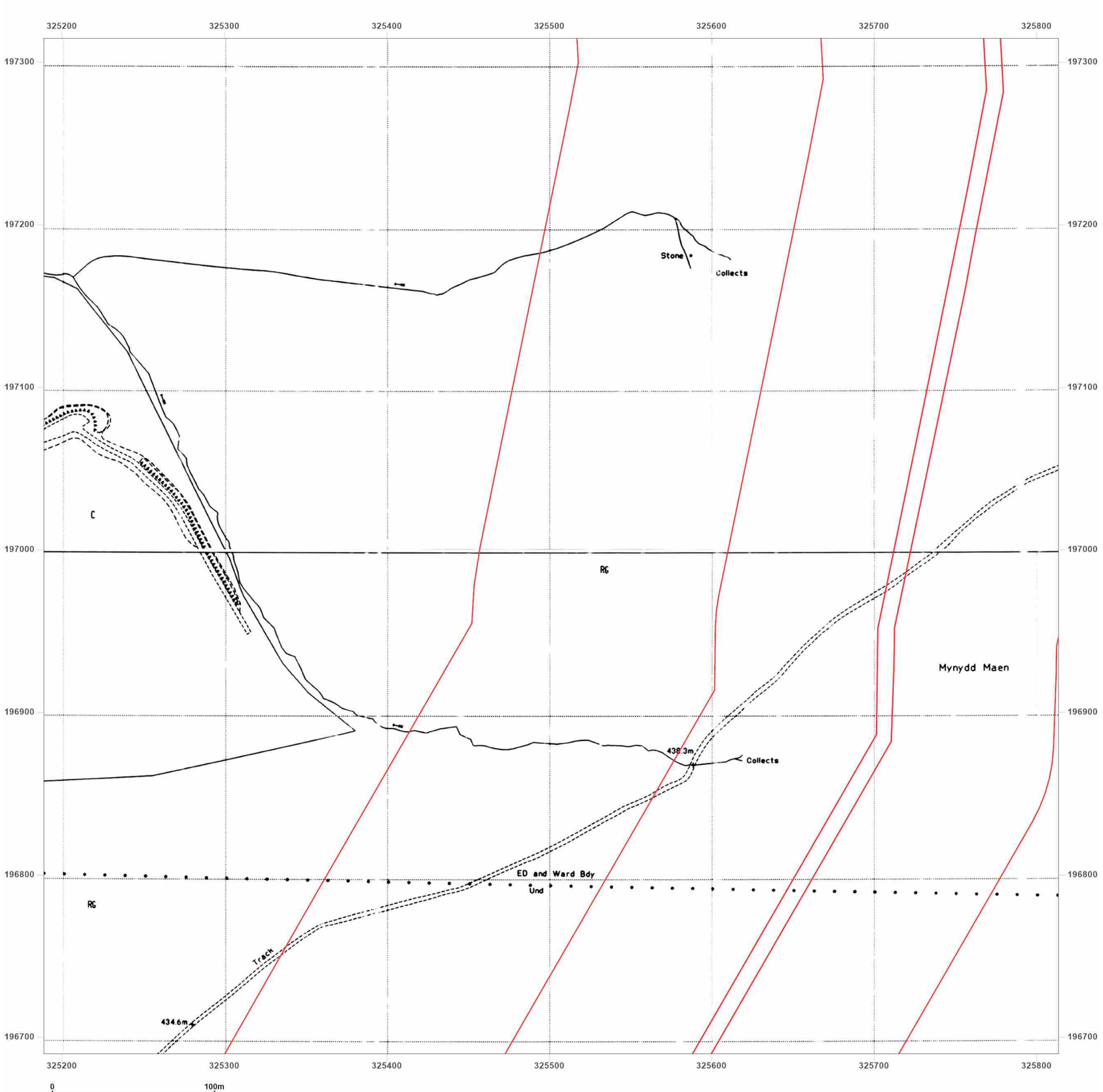
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_5
Grid Ref: 325501, 197002

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Groundsure INSIGHTS

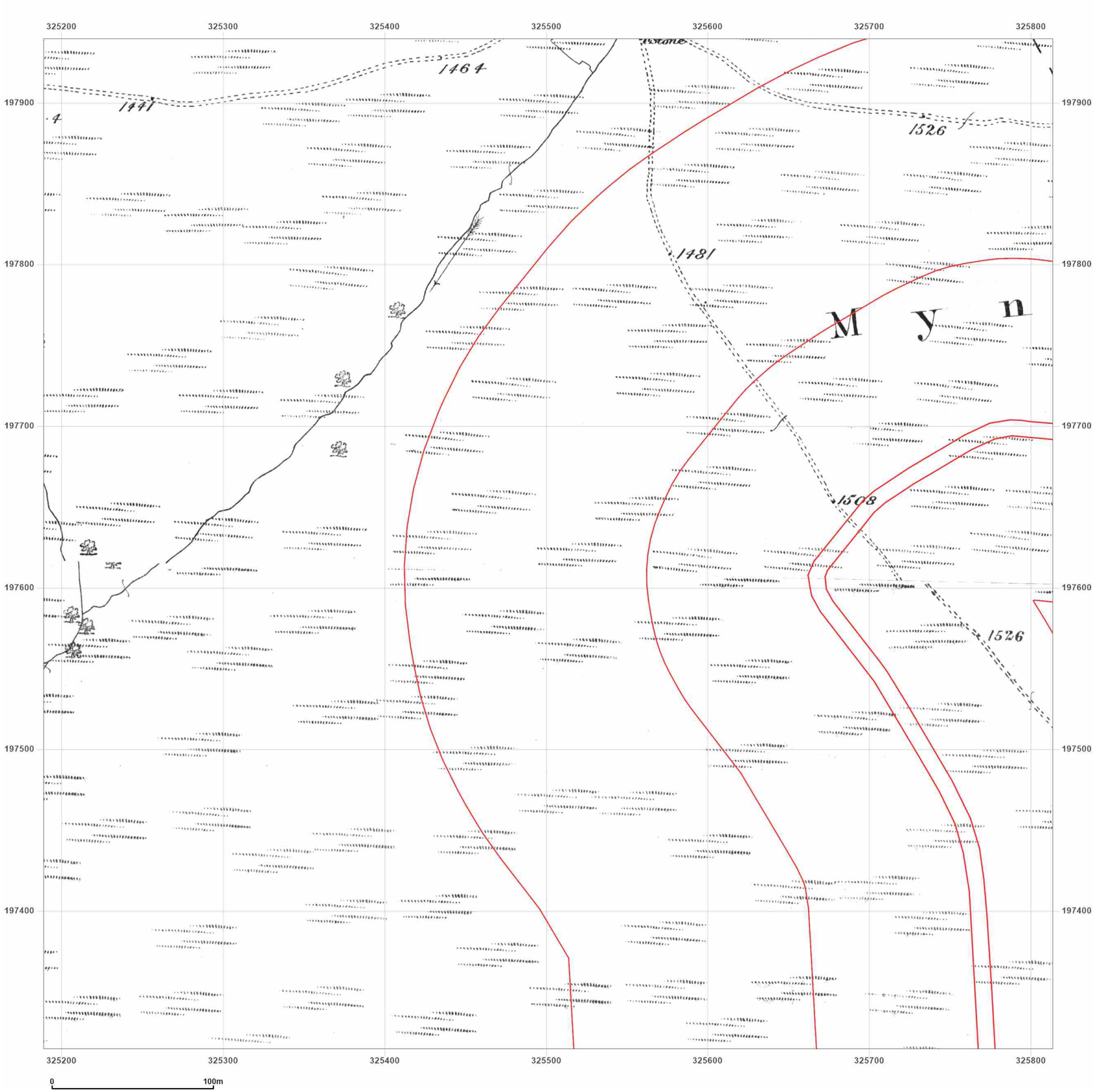
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_6
Grid Ref: 325501, 197627

Map Name: County Series

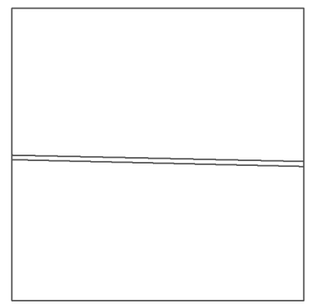
Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

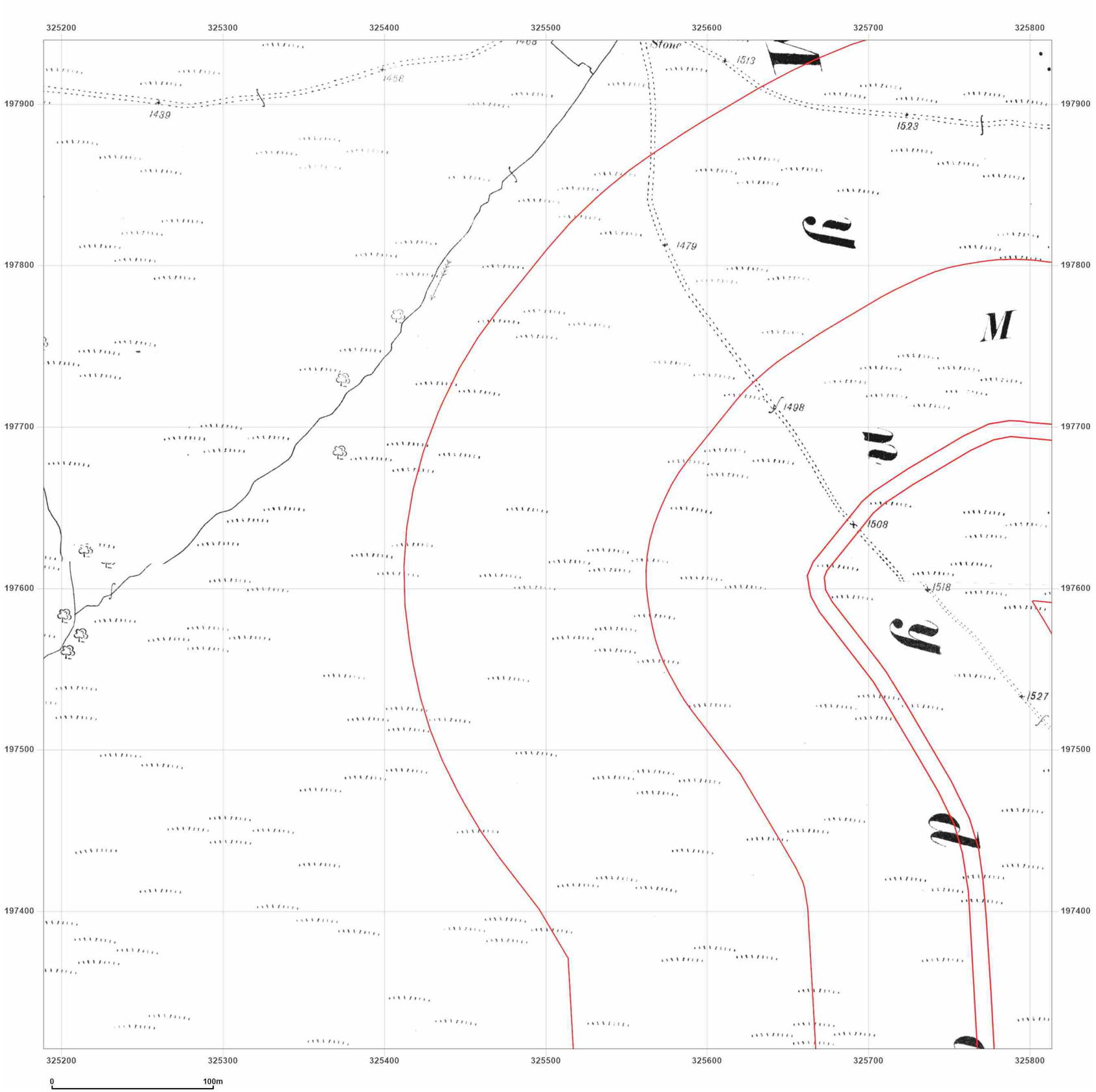
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_6
Grid Ref: 325501, 197627

Map Name: County Series

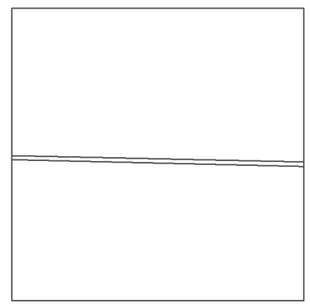
Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

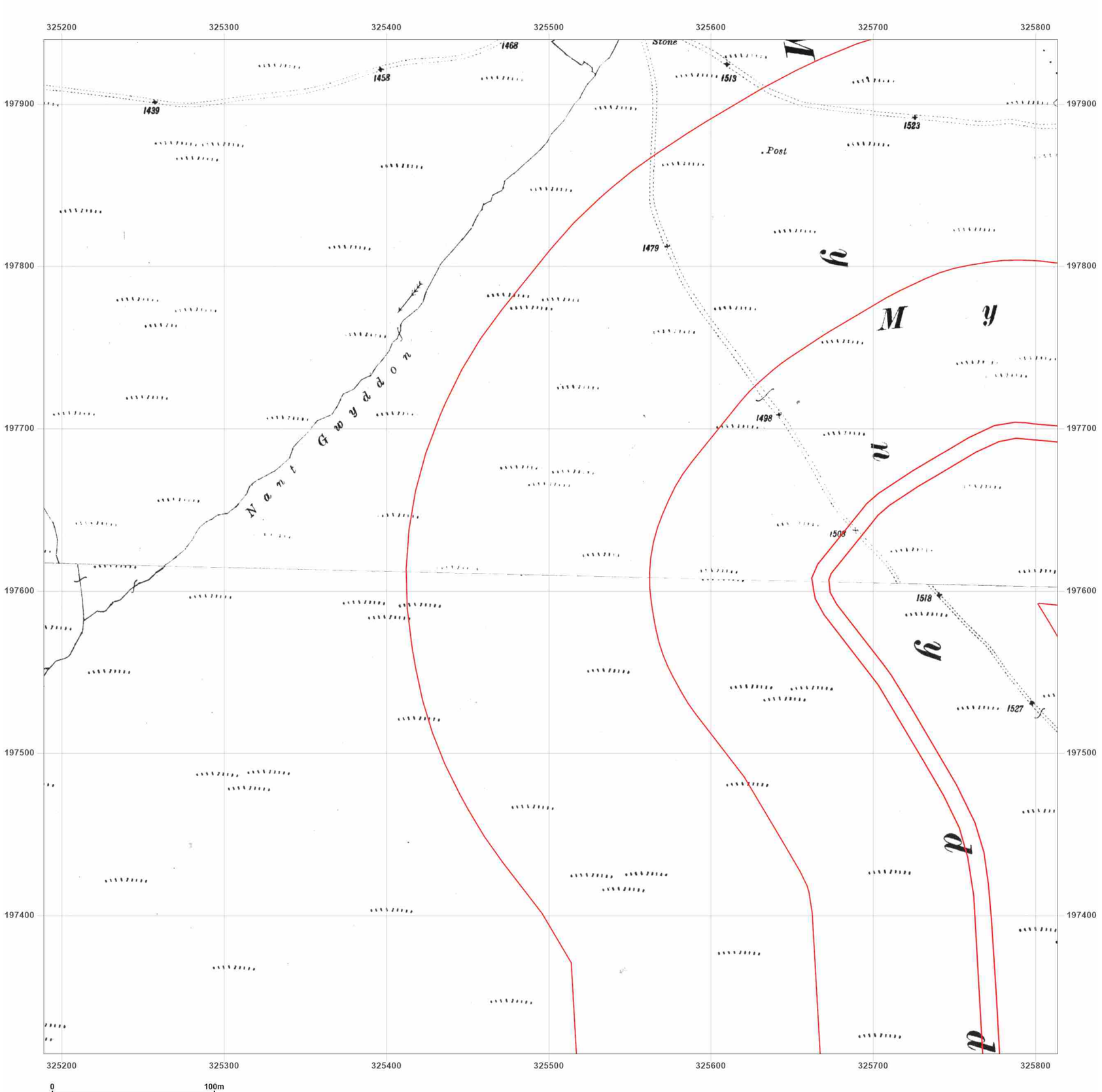
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_6
Grid Ref: 325501, 197627

Map Name: County Series

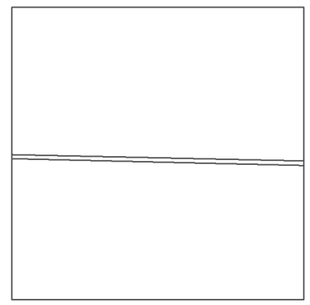
Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

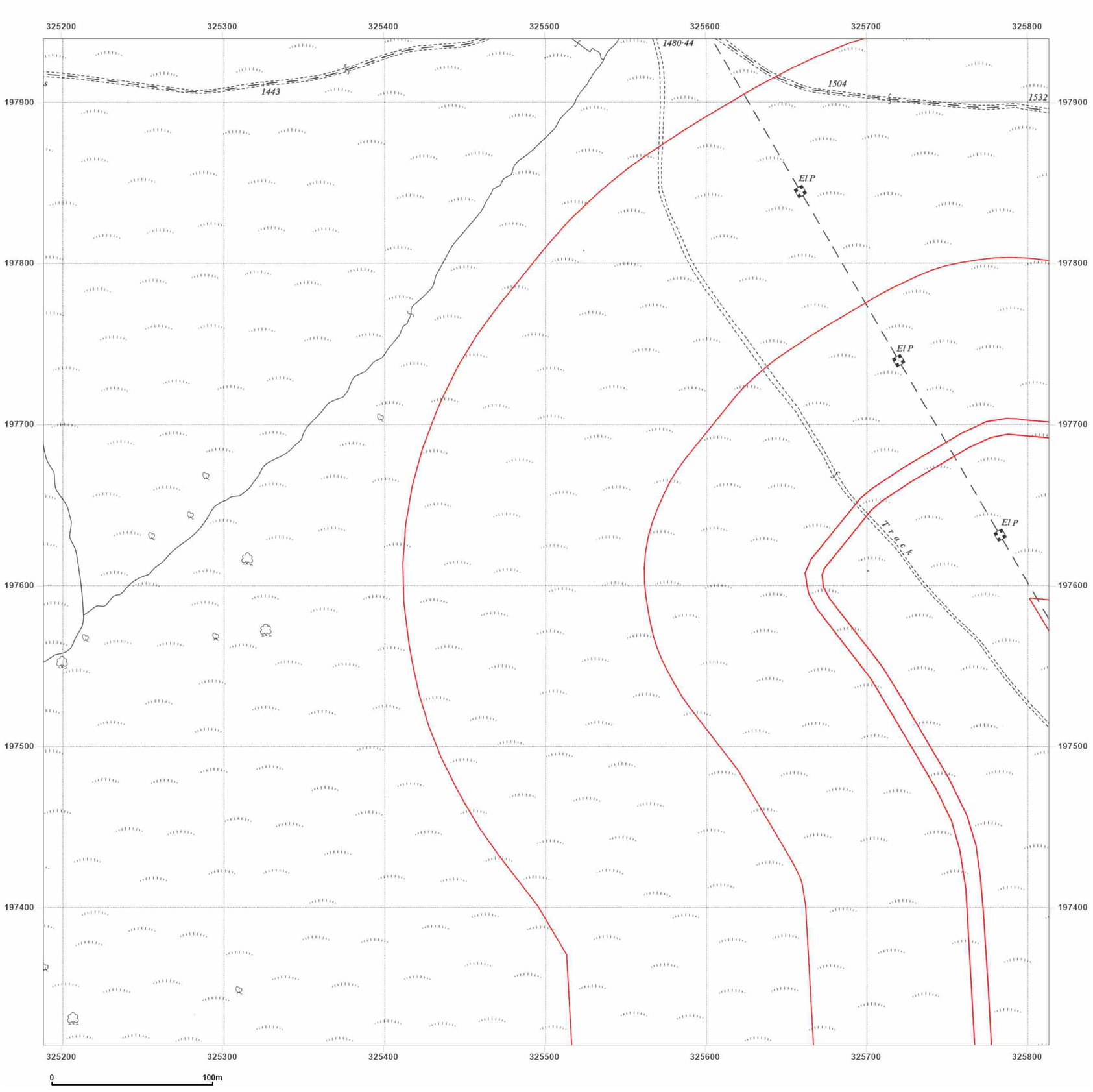
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_6
Grid Ref: 325501, 197627

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Groundsure INSIGHTS

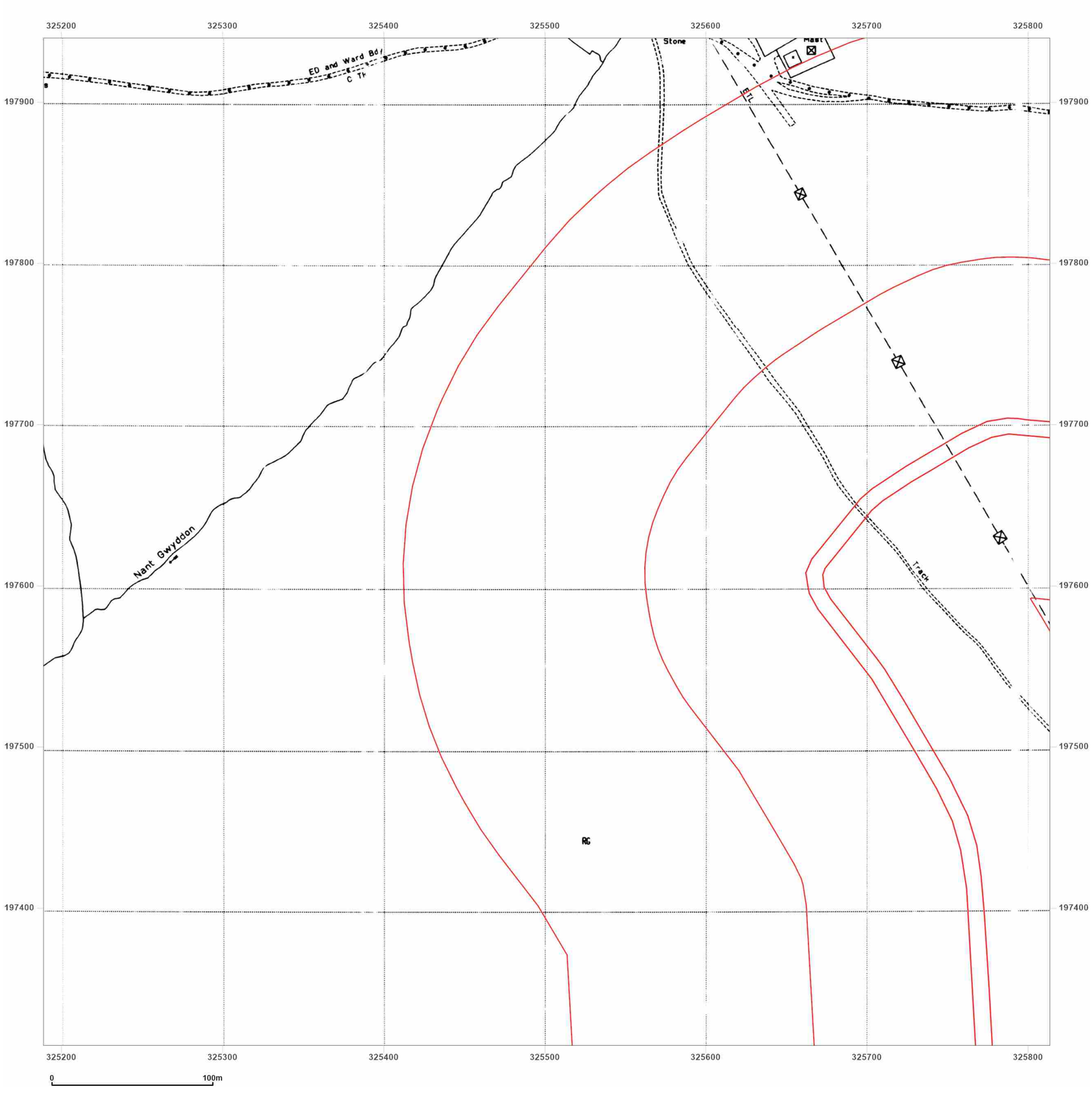
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_6
Grid Ref: 325501, 197627

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Groundsure INSIGHTS

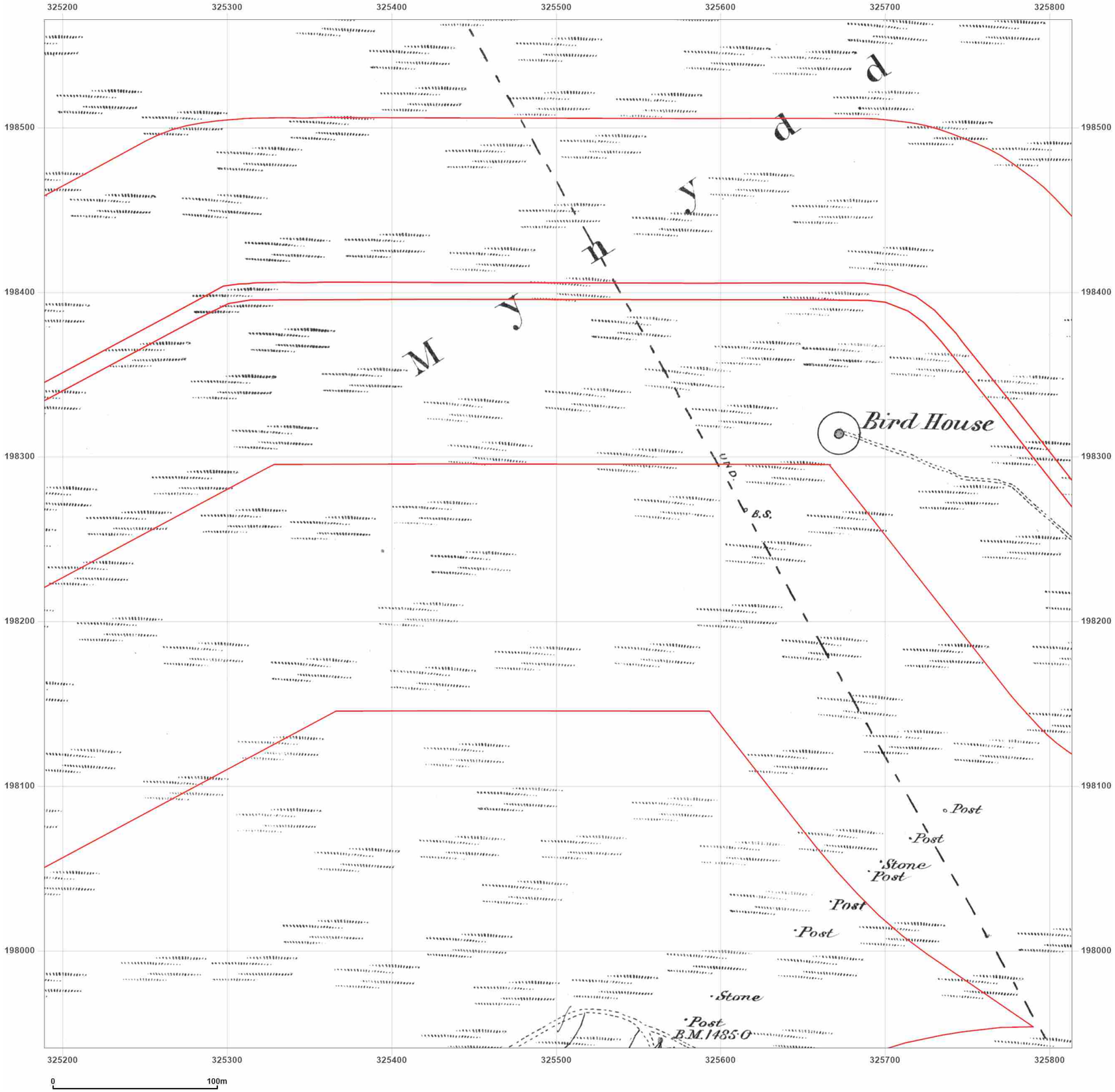
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_7
Grid Ref: 325501, 198253

Map Name: County Series

Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

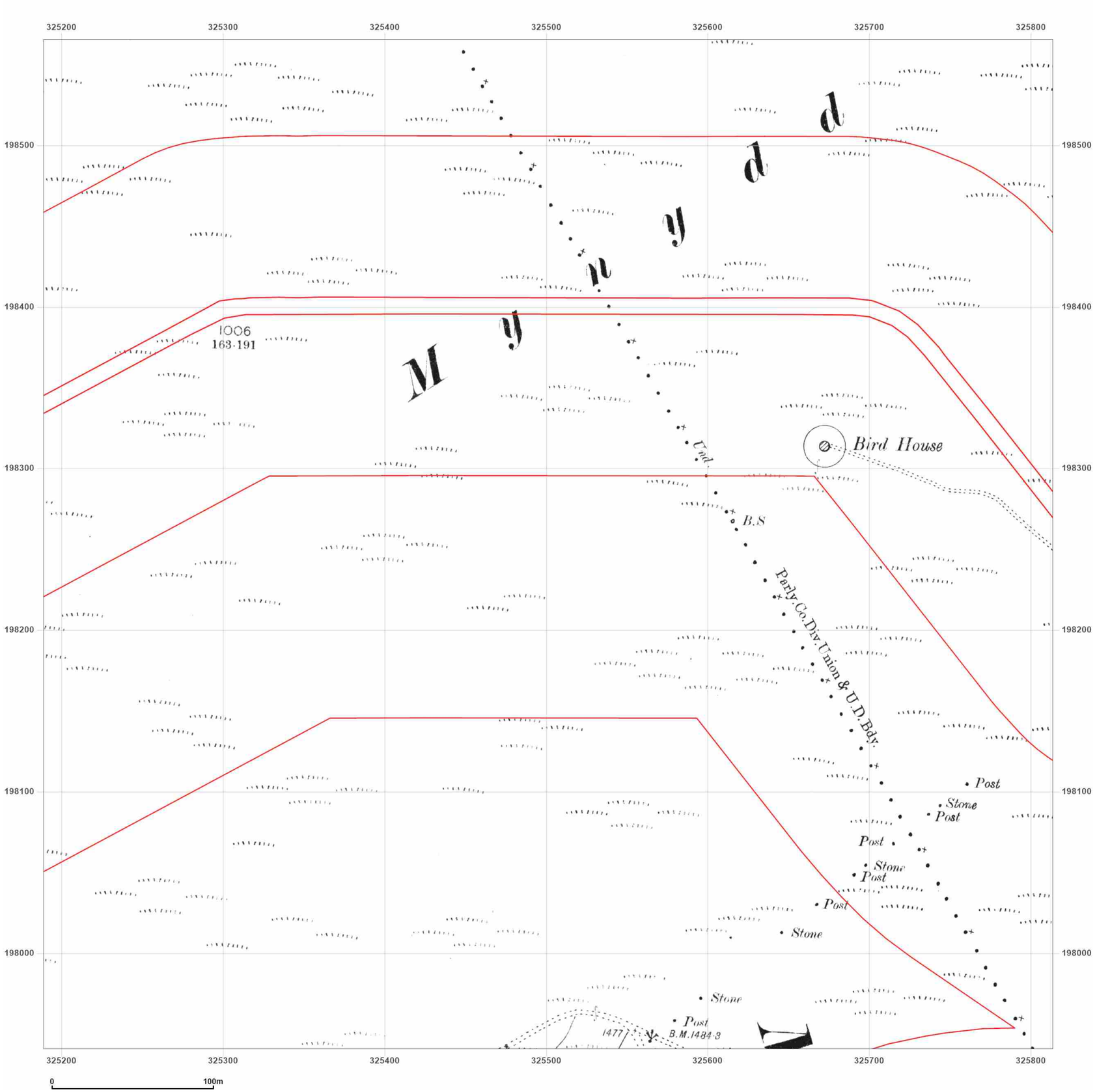
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Production date: 12 September 2025

Map legend available at:
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_7
Grid Ref: 325501, 198253

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

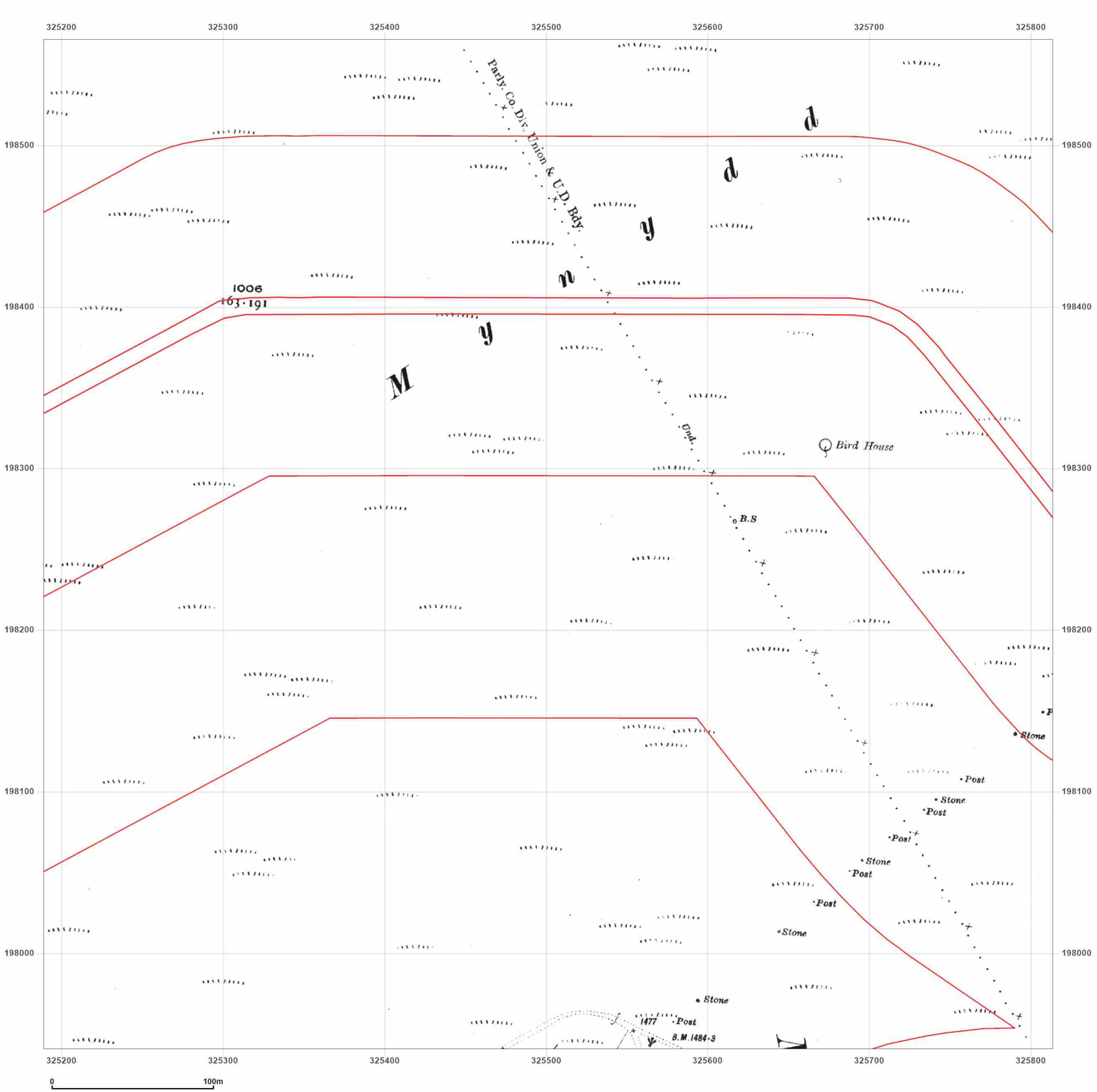
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Production date: 12 September 2025

Map legend available at:
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_7
Grid Ref: 325501, 198253

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

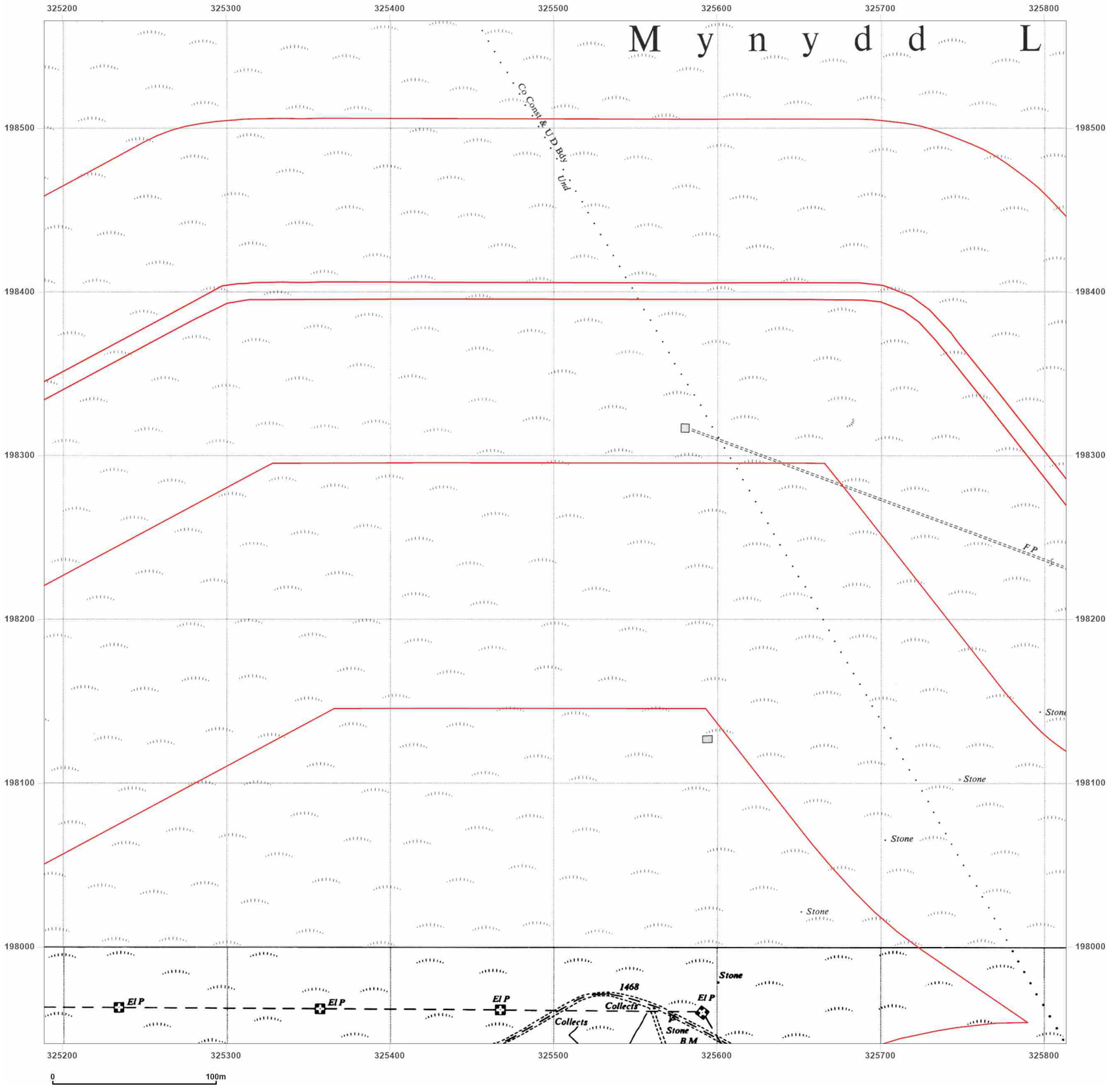
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_7
Grid Ref: 325501, 198253

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed N/A
~~Revised N/A~~
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

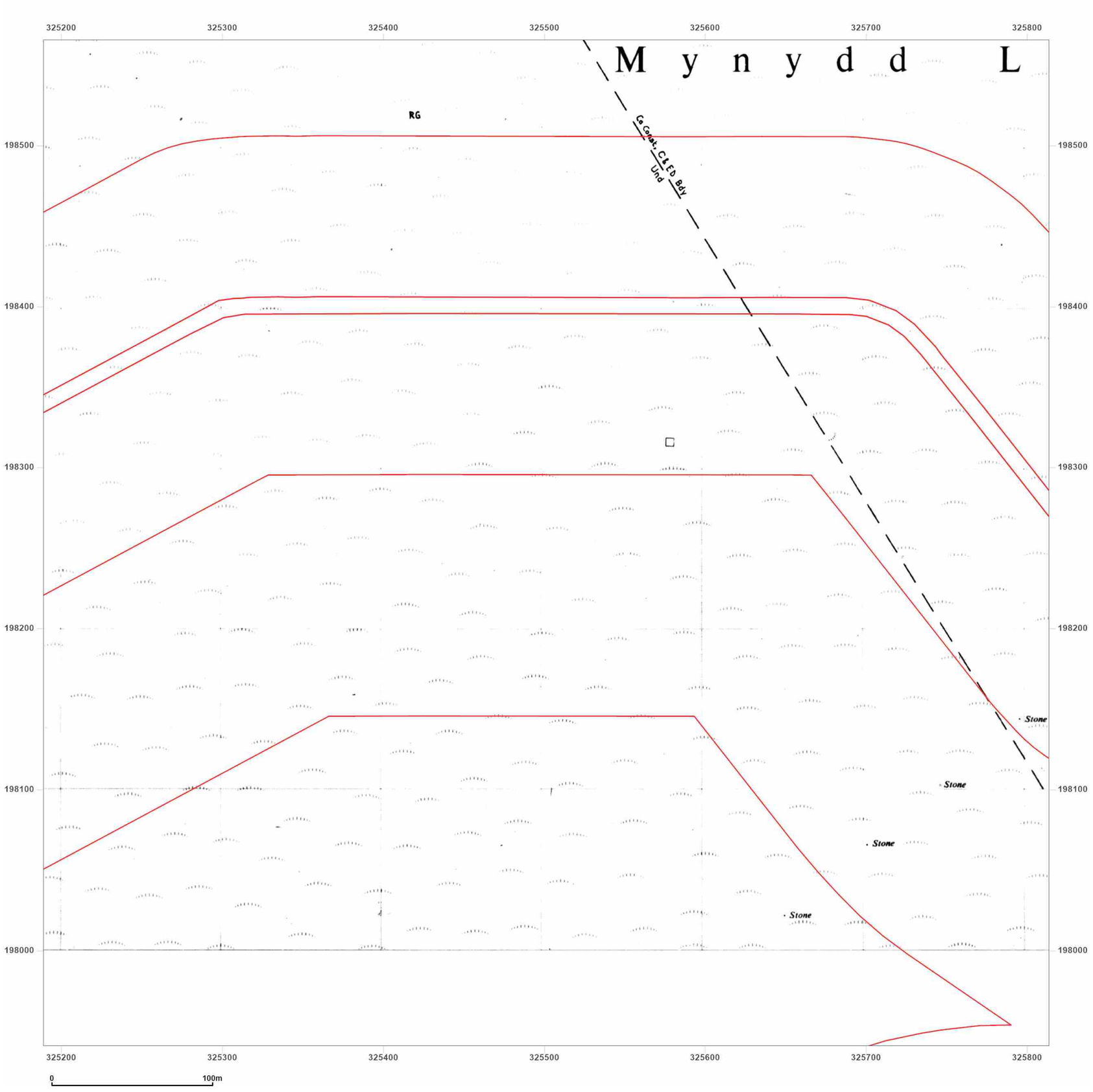
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_7
Grid Ref: 325501, 198253

Map Name: National Grid

Map date: **1992**

Scale: 1:2,500

Printed at: 1:2,500

N
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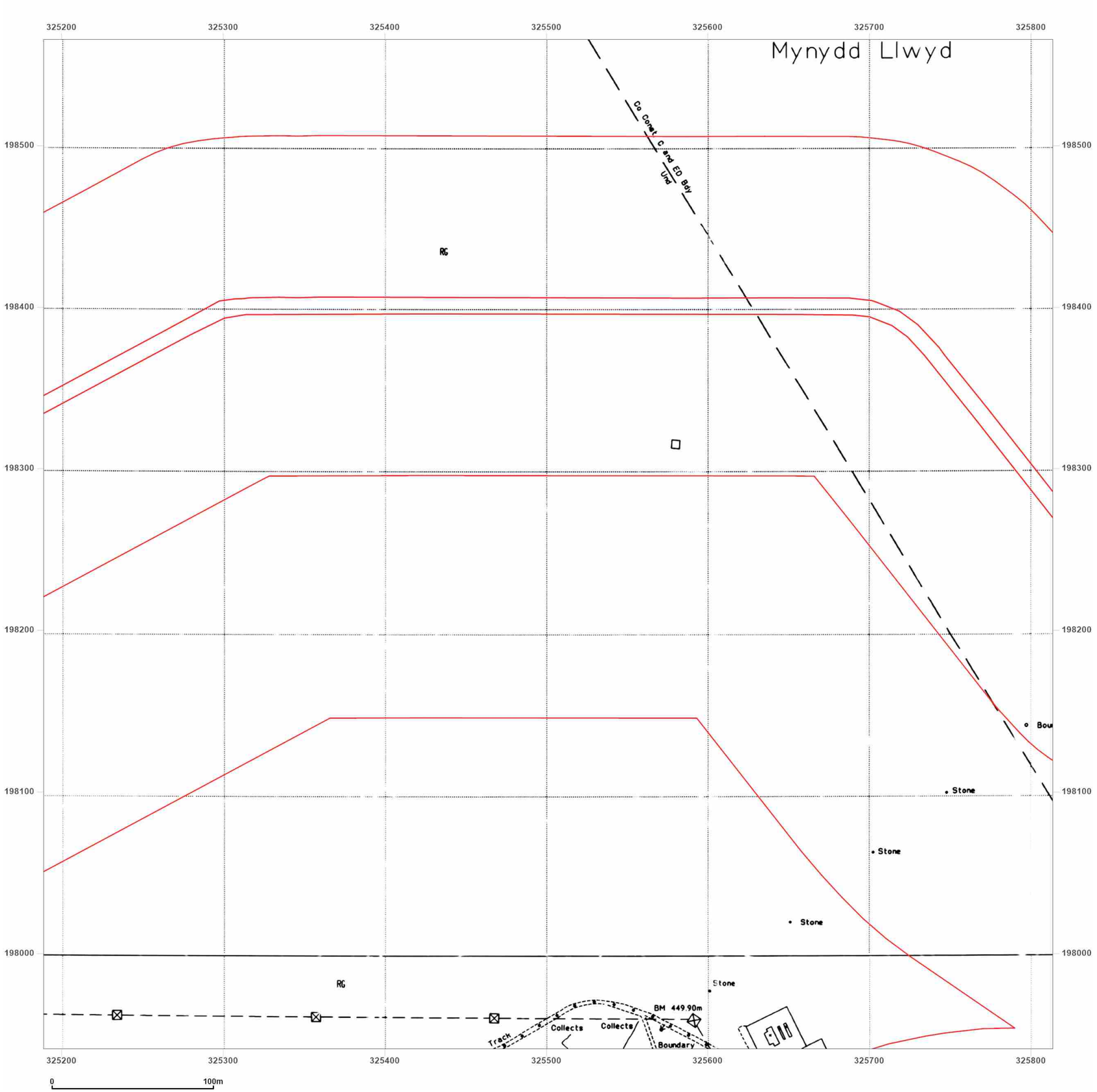
Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_6_7
Grid Ref: 325501, 198253

Map Name: National Grid

Map date: **1993**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

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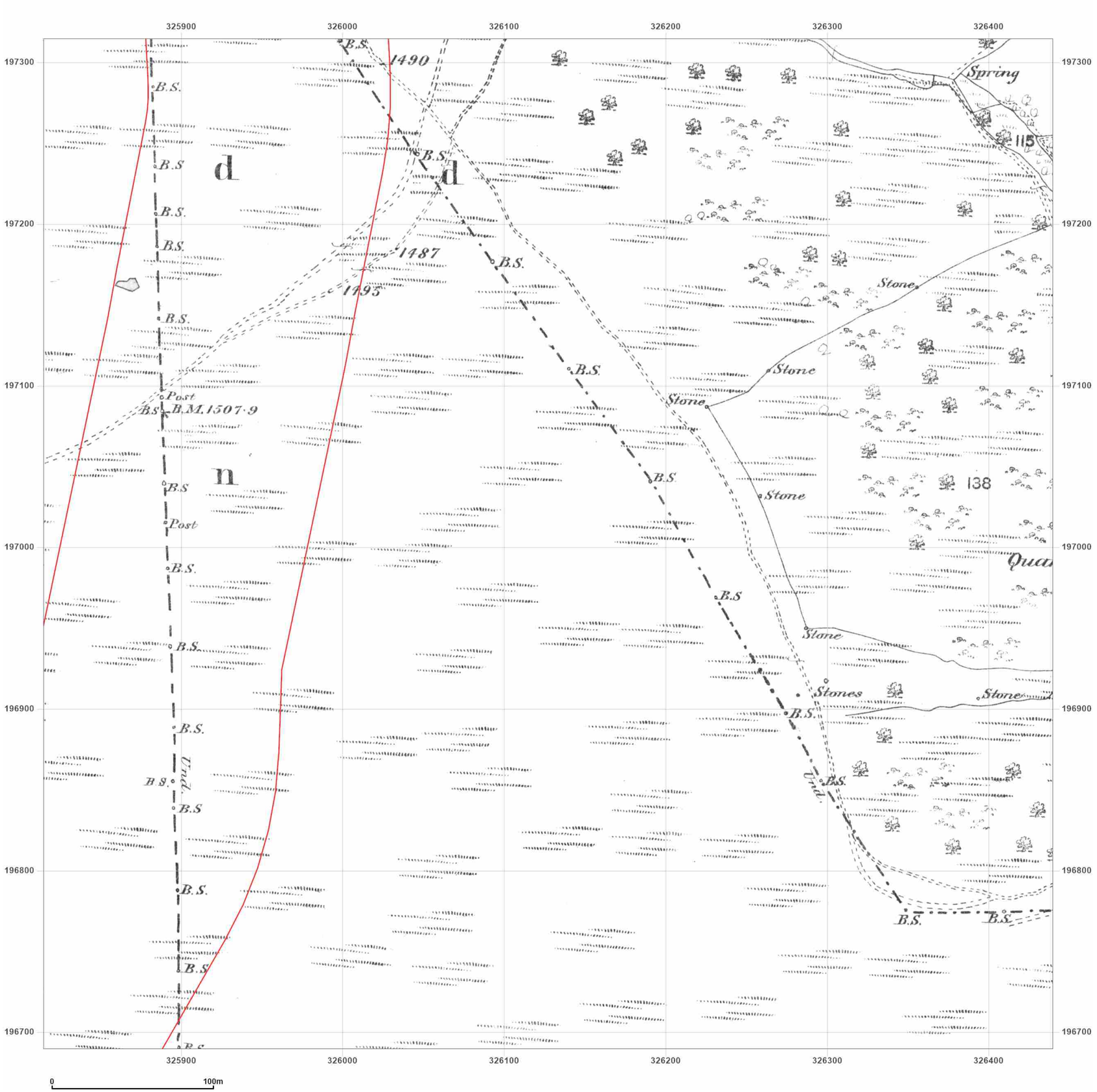
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_5
Grid Ref: 326127, 197002

Map Name: County Series

Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

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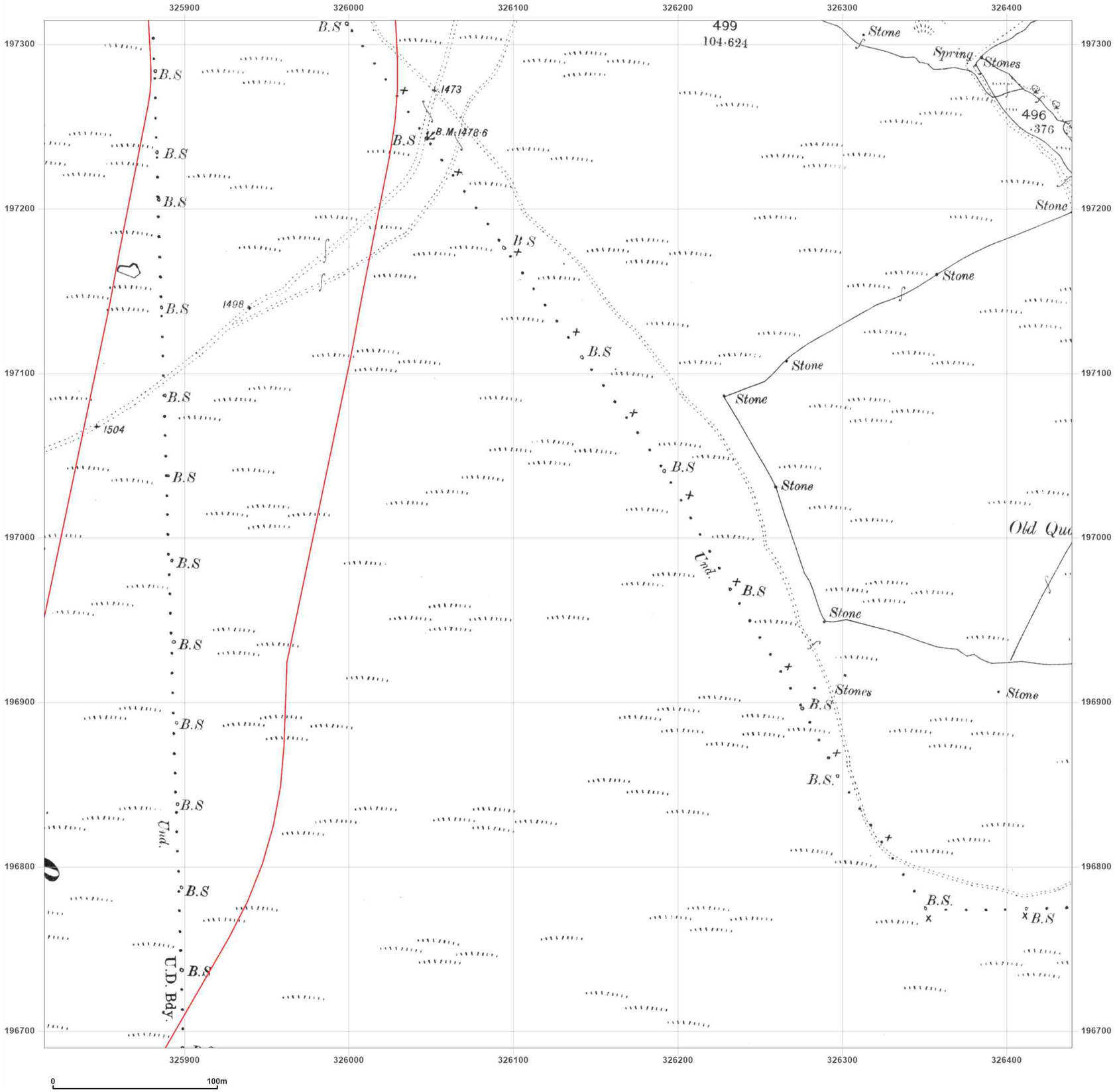
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_5
Grid Ref: 326127, 197002

Map Name: County Series

Map date: **1901**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

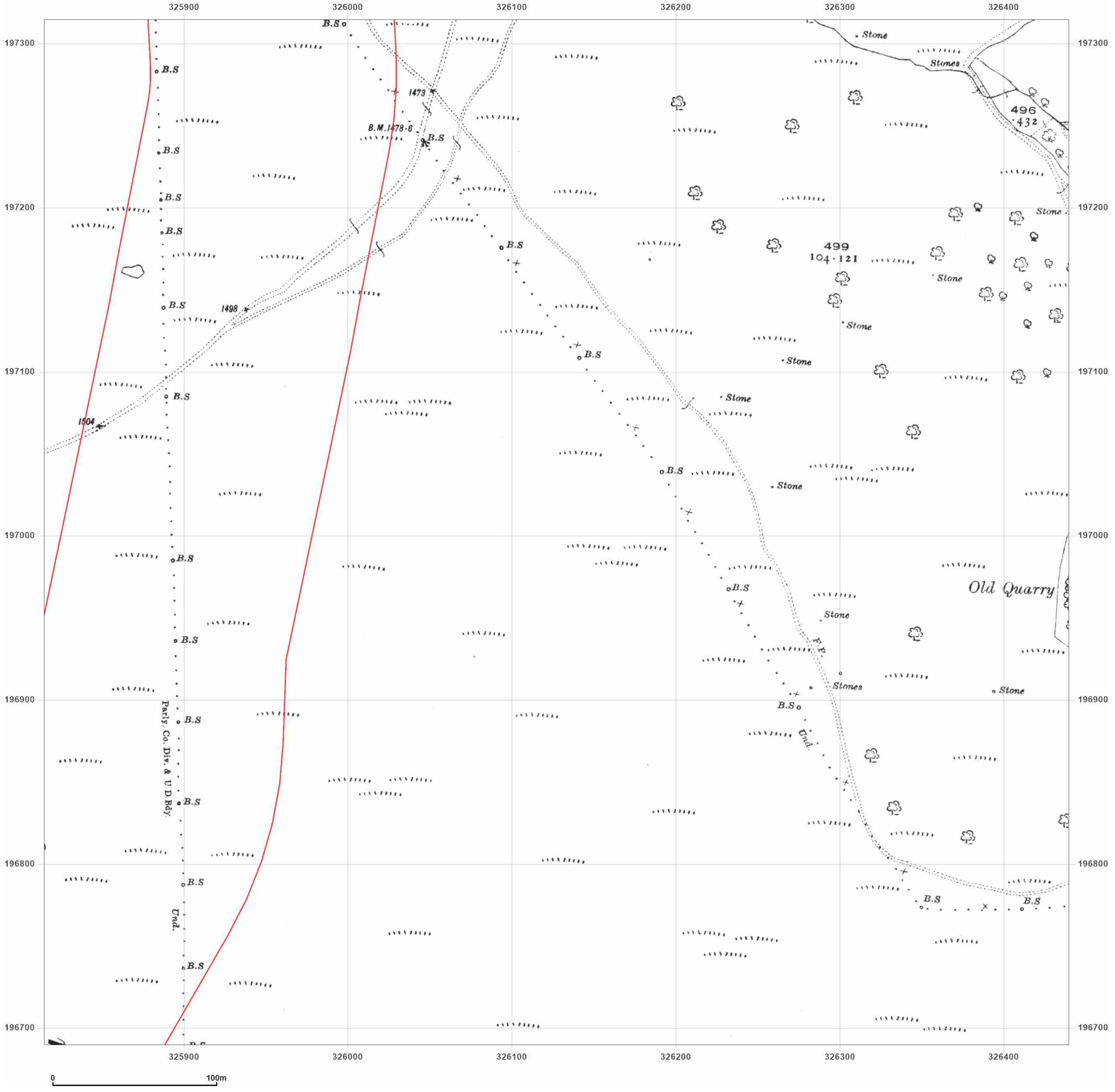
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_5
Grid Ref: 326127, 197002

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

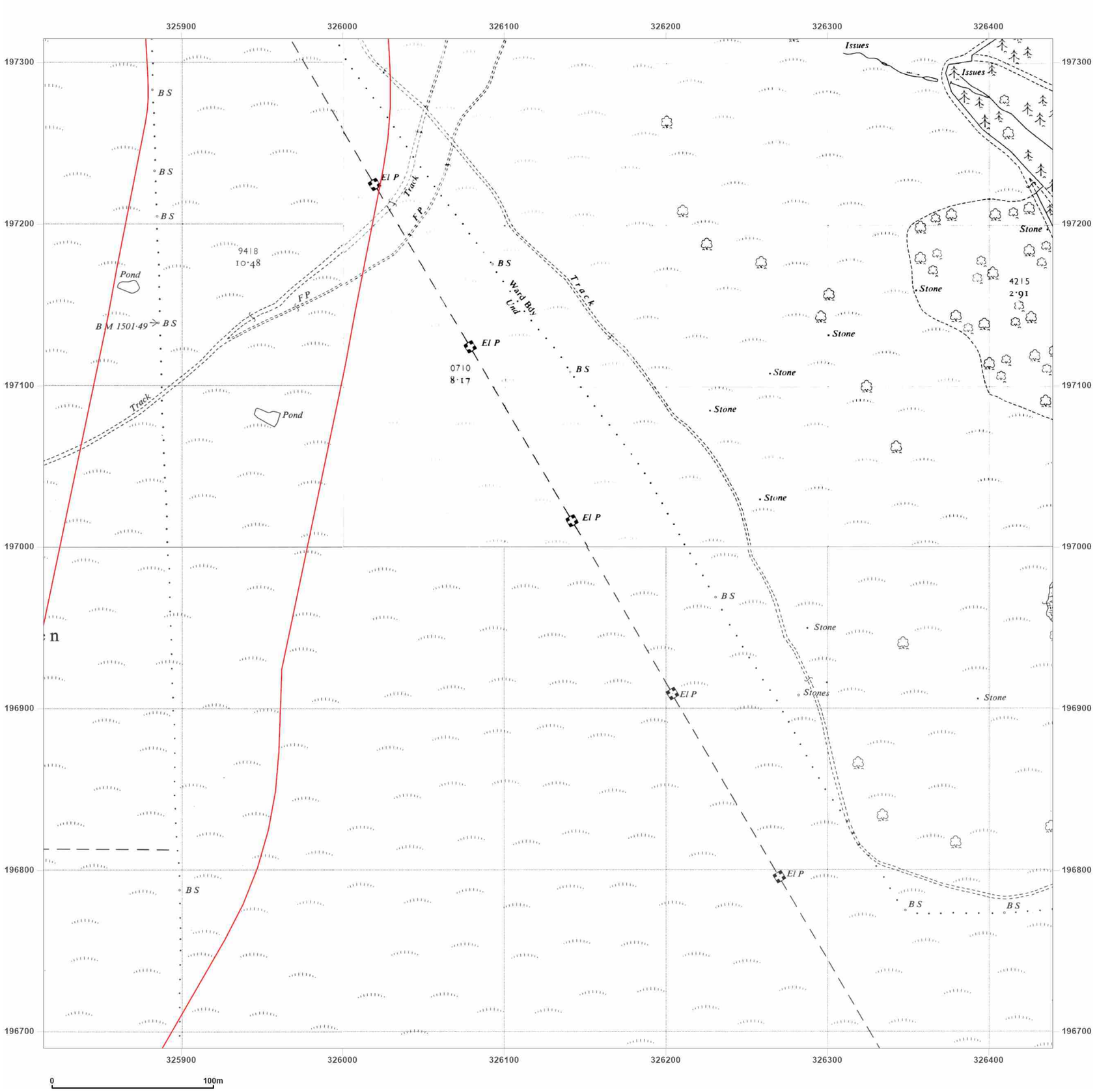
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_5
Grid Ref: 326127, 197002

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Surveyed 1961
Revised 1961
Edition 1962
Copyright 1962
Levelled 1958

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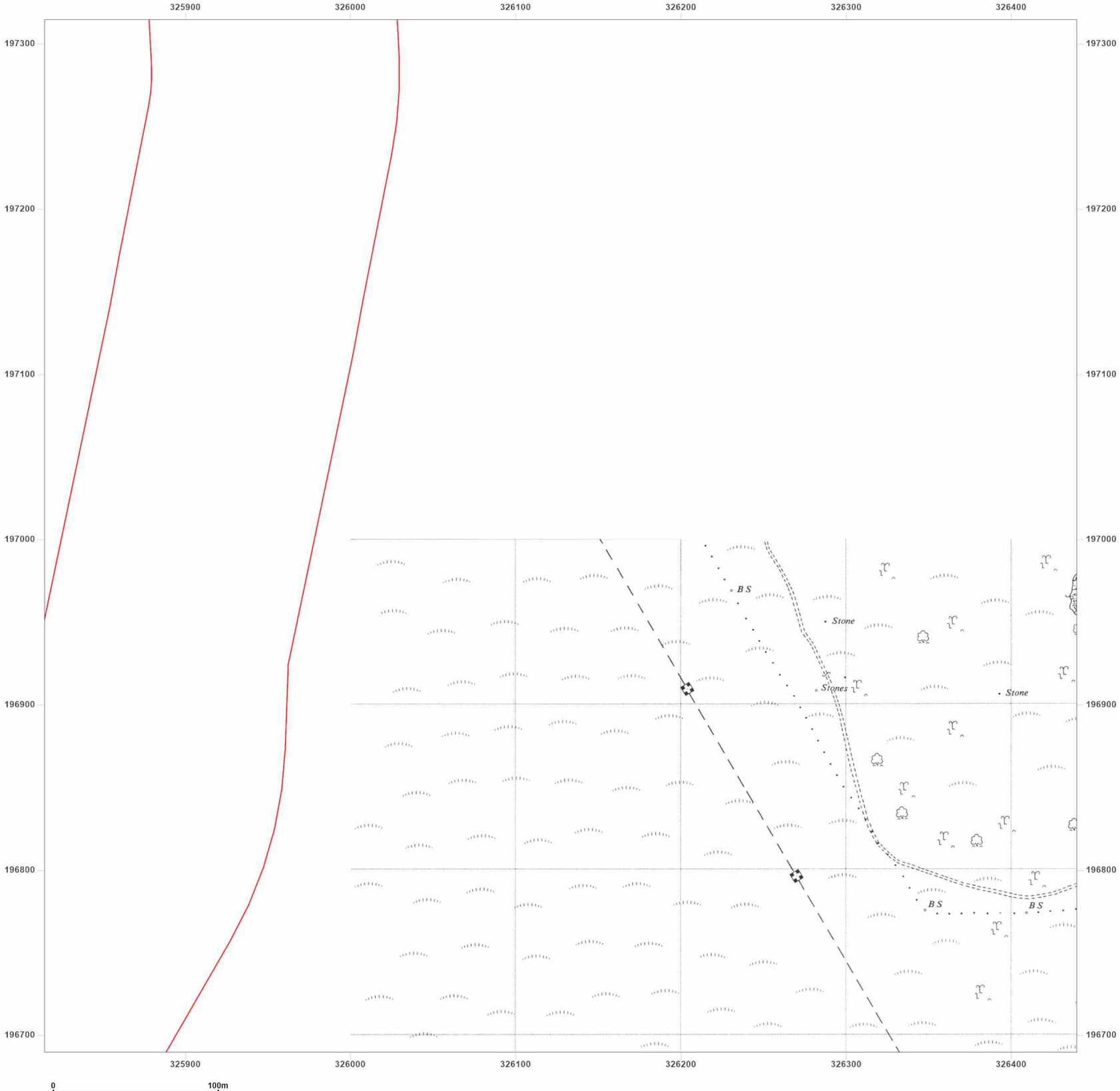
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Site Details:

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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_5
Grid Ref: 326127, 197002

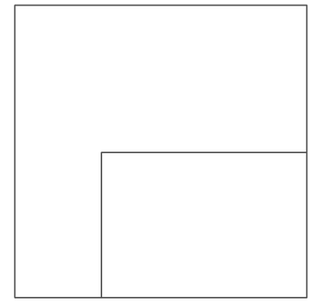
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Map date: **1969**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1965

Groundsure INSIGHTS

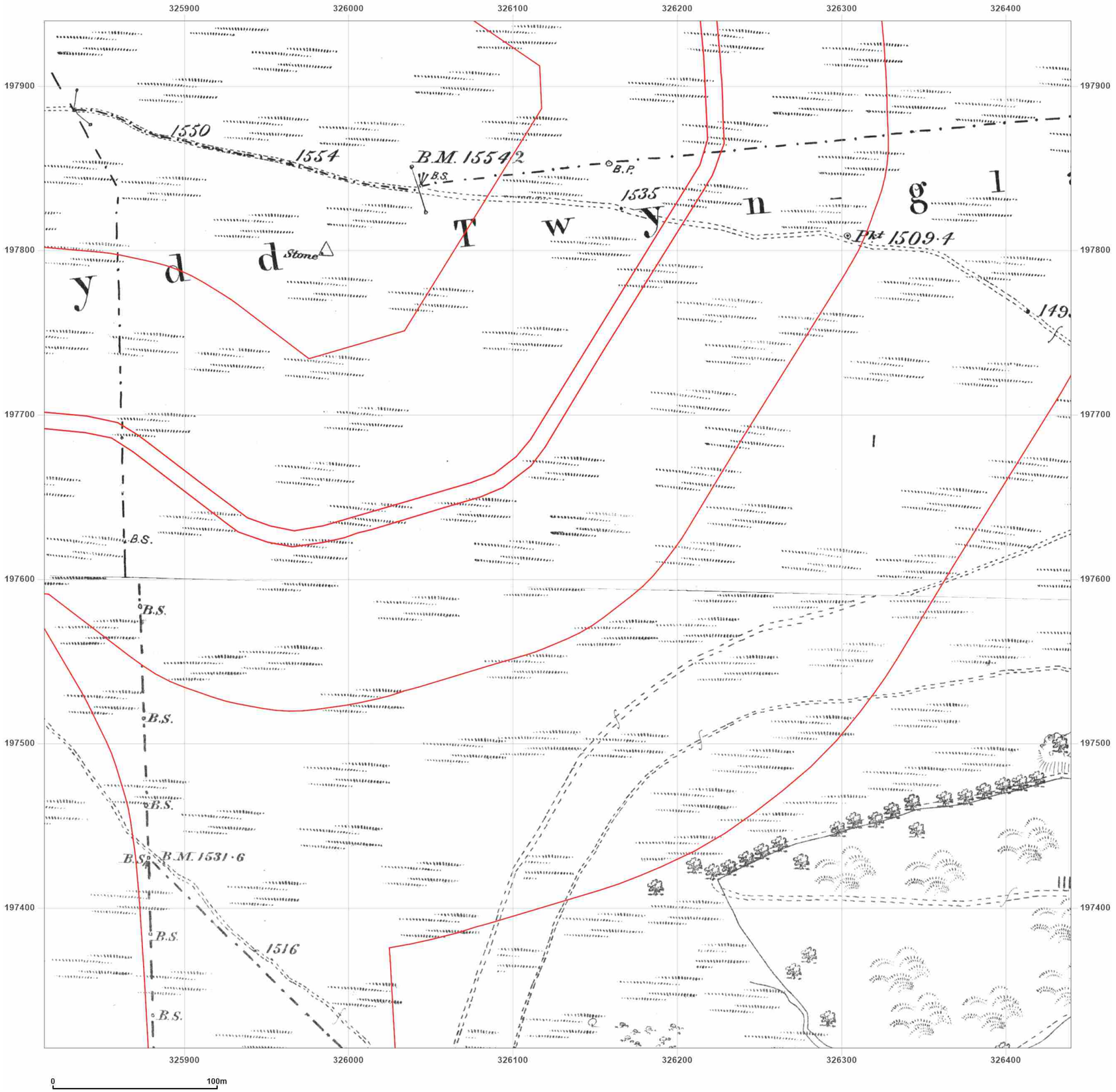
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Production date: 12 September 2025

Map legend available at:
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wsp

Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_6
Grid Ref: 326127, 197627

Map Name: County Series

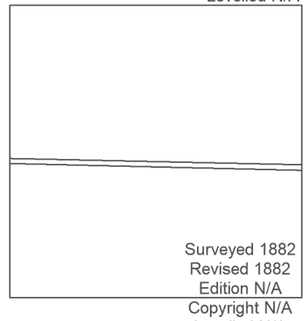
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Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A



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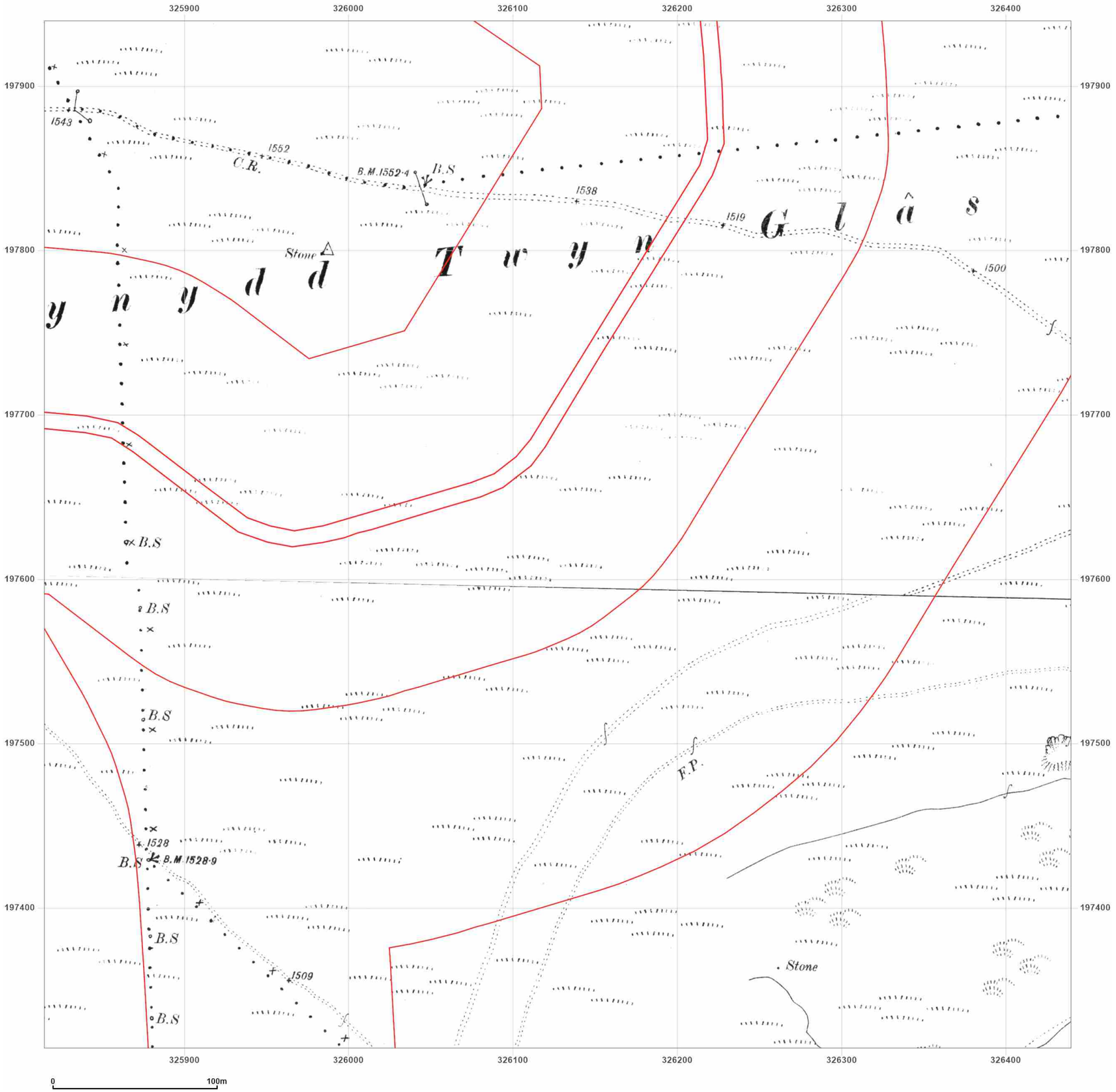
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_6
Grid Ref: 326127, 197627

Map Name: County Series

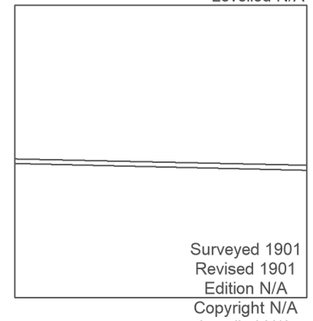
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Printed at: 1:2,500

N
W E
S

Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

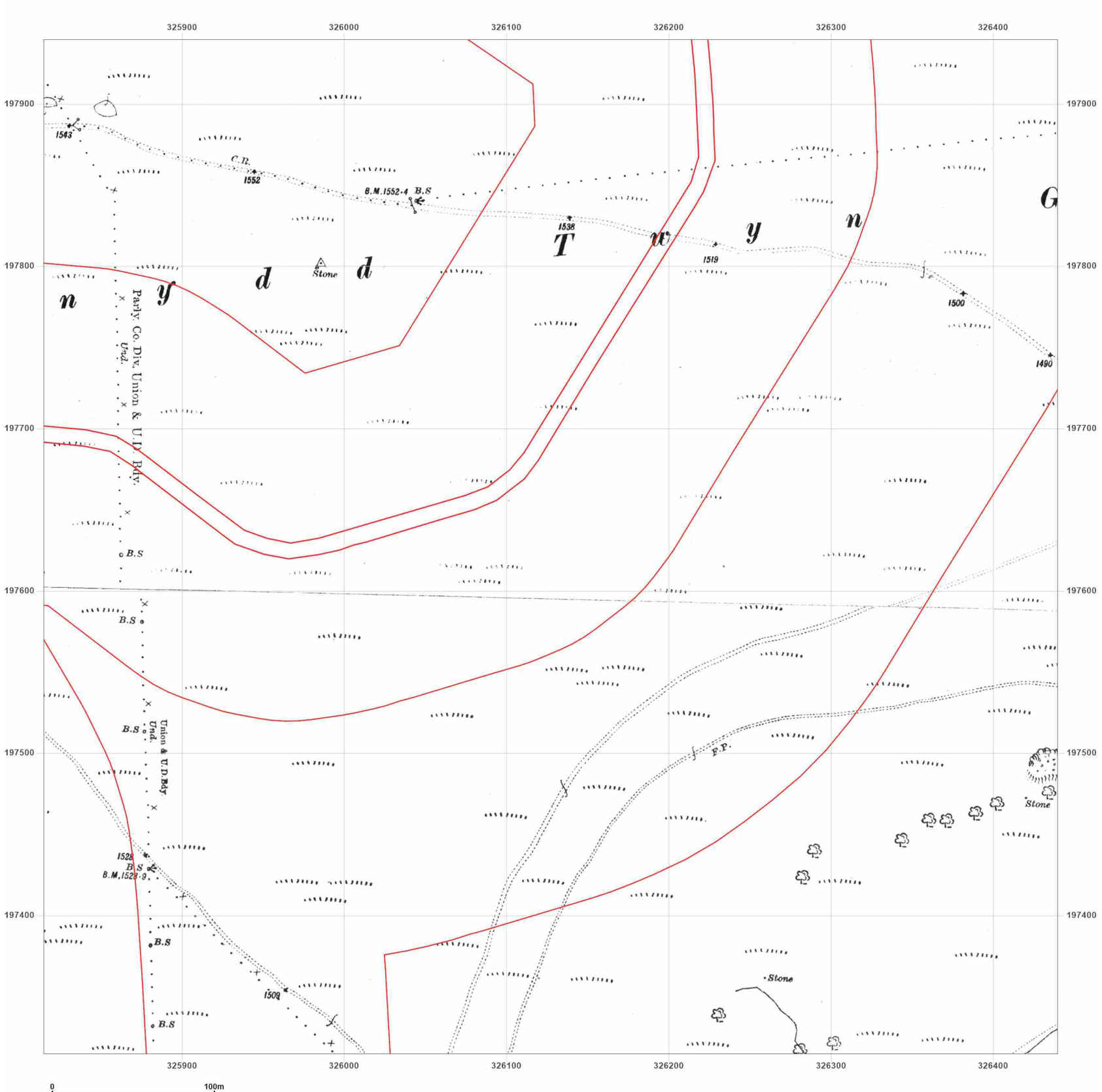
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Production date: 12 September 2025

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_6
Grid Ref: 326127, 197627

Map Name: County Series

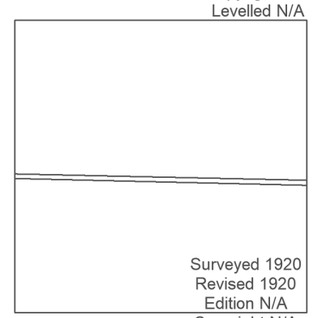
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Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

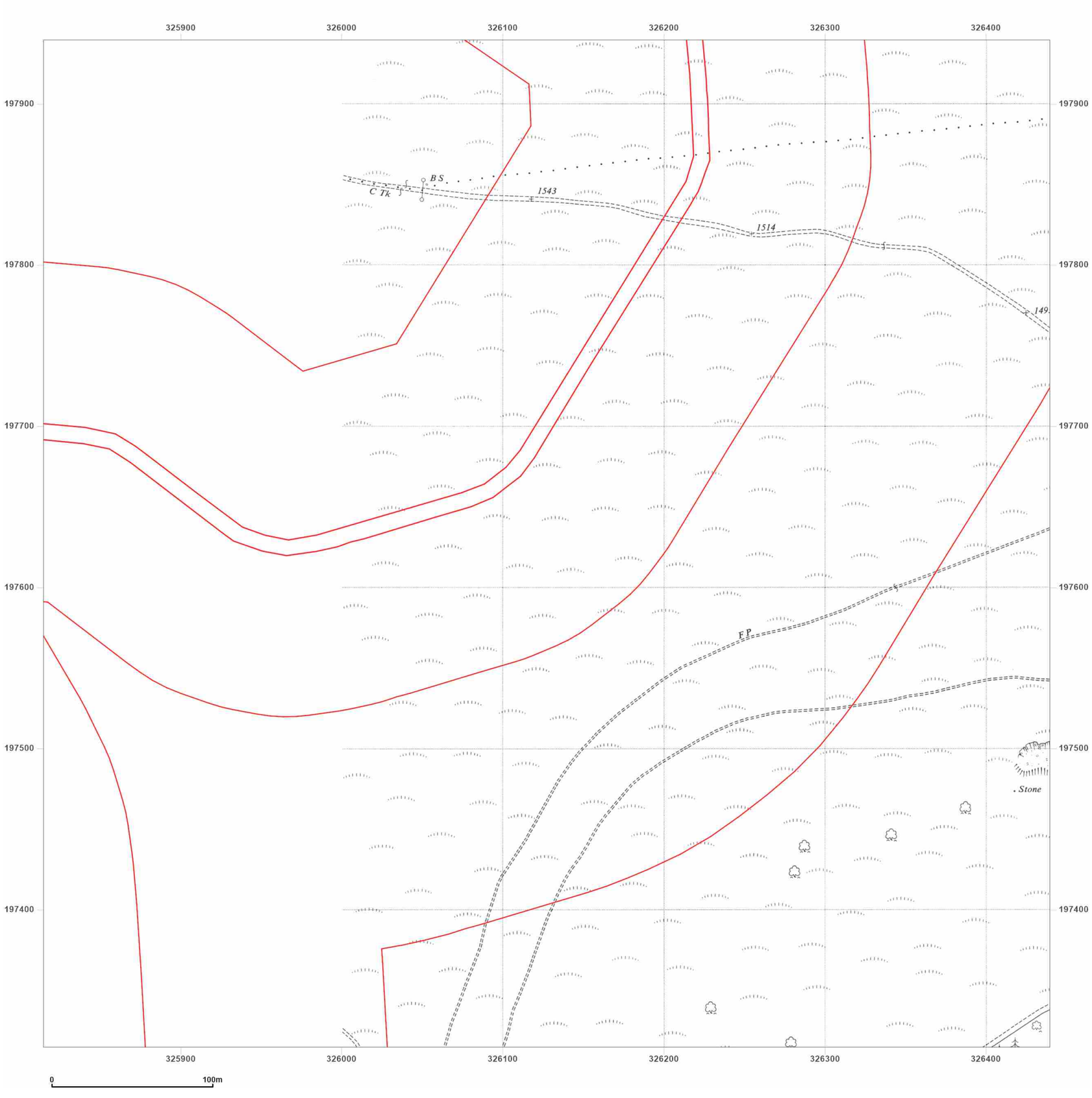
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Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_6
Grid Ref: 326127, 197627

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1958

Groundsure INSIGHTS

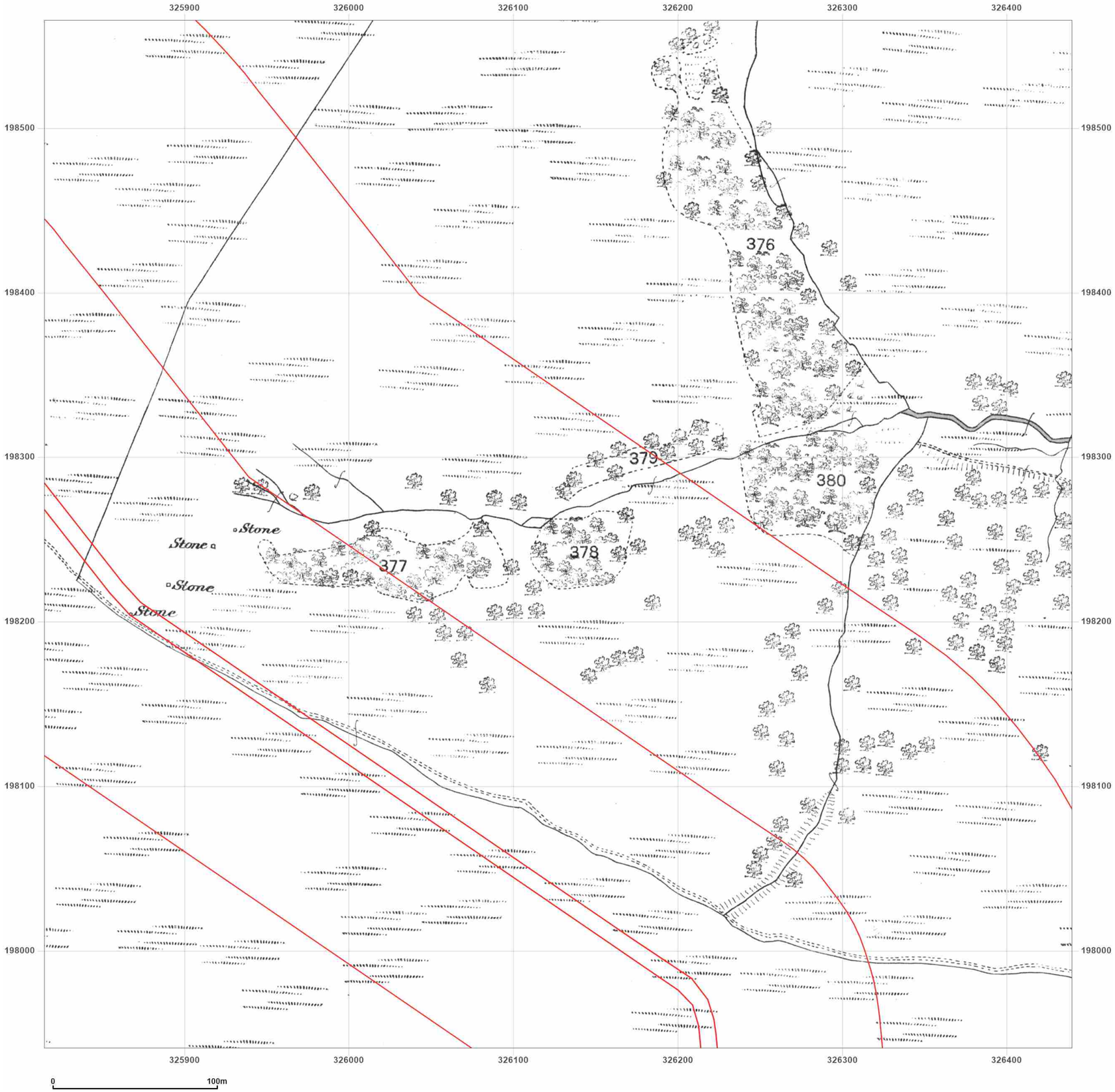
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_7
Grid Ref: 326127, 198253

Map Name: County Series

Map date: **1882**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1882
Revised 1882
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

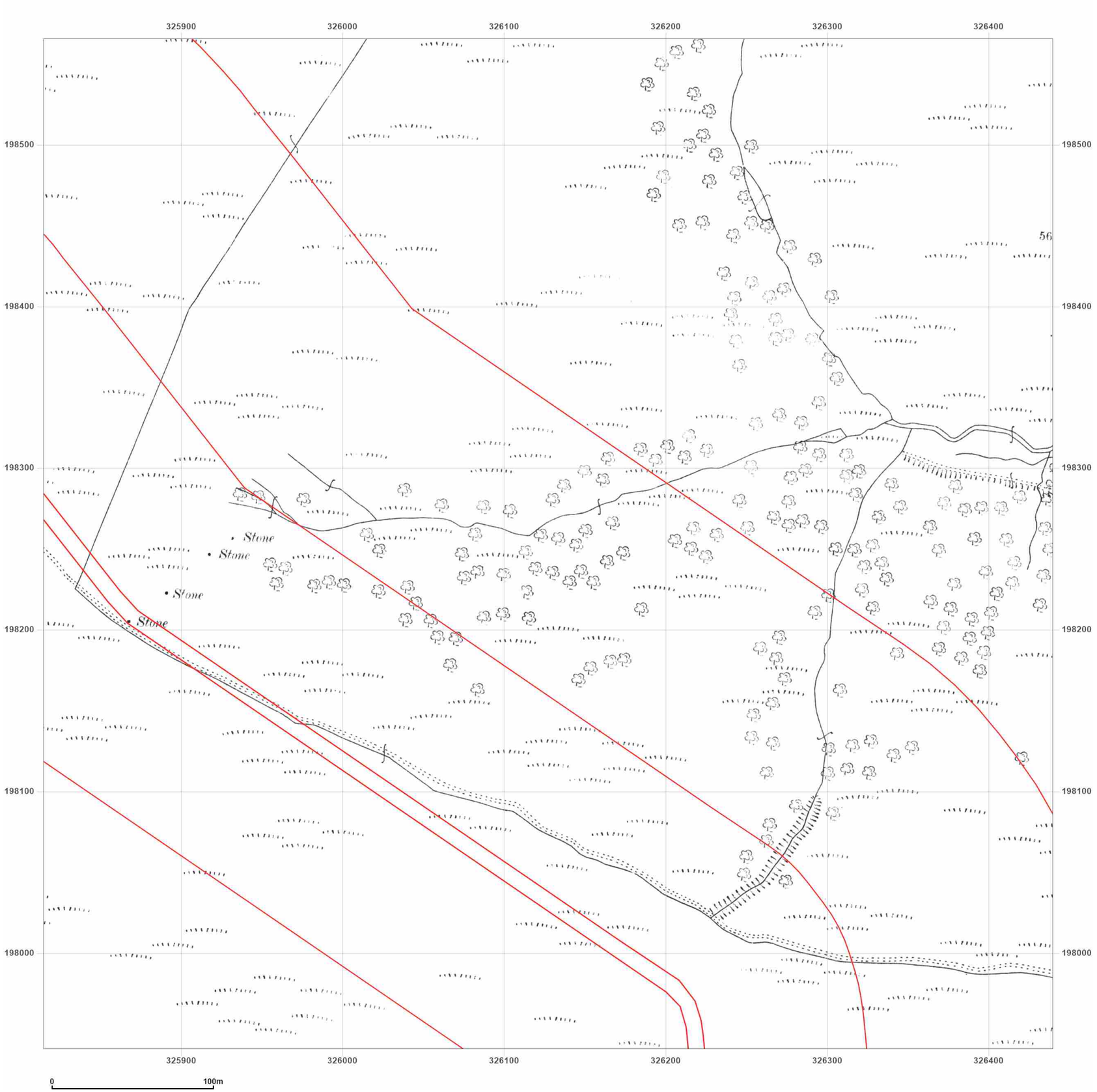
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_7
Grid Ref: 326127, 198253

Map Name: County Series

Map date: **1901**

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Printed at: 1:2,500

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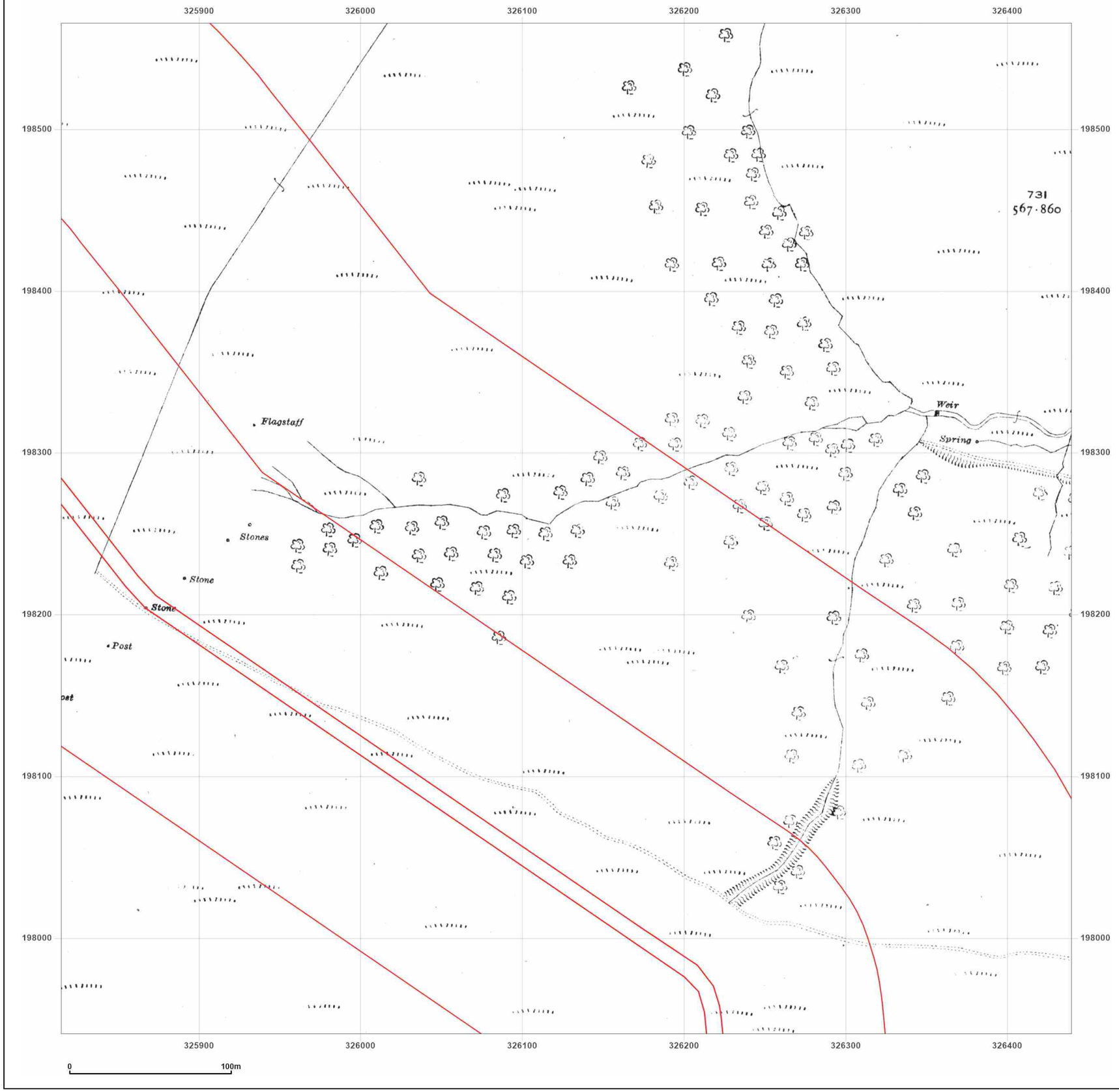
Surveyed 1901
Revised 1901
Edition N/A
Copyright N/A
Levelled N/A

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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_7
Grid Ref: 326127, 198253

Map Name: County Series

Map date: **1920**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Groundsure INSIGHTS

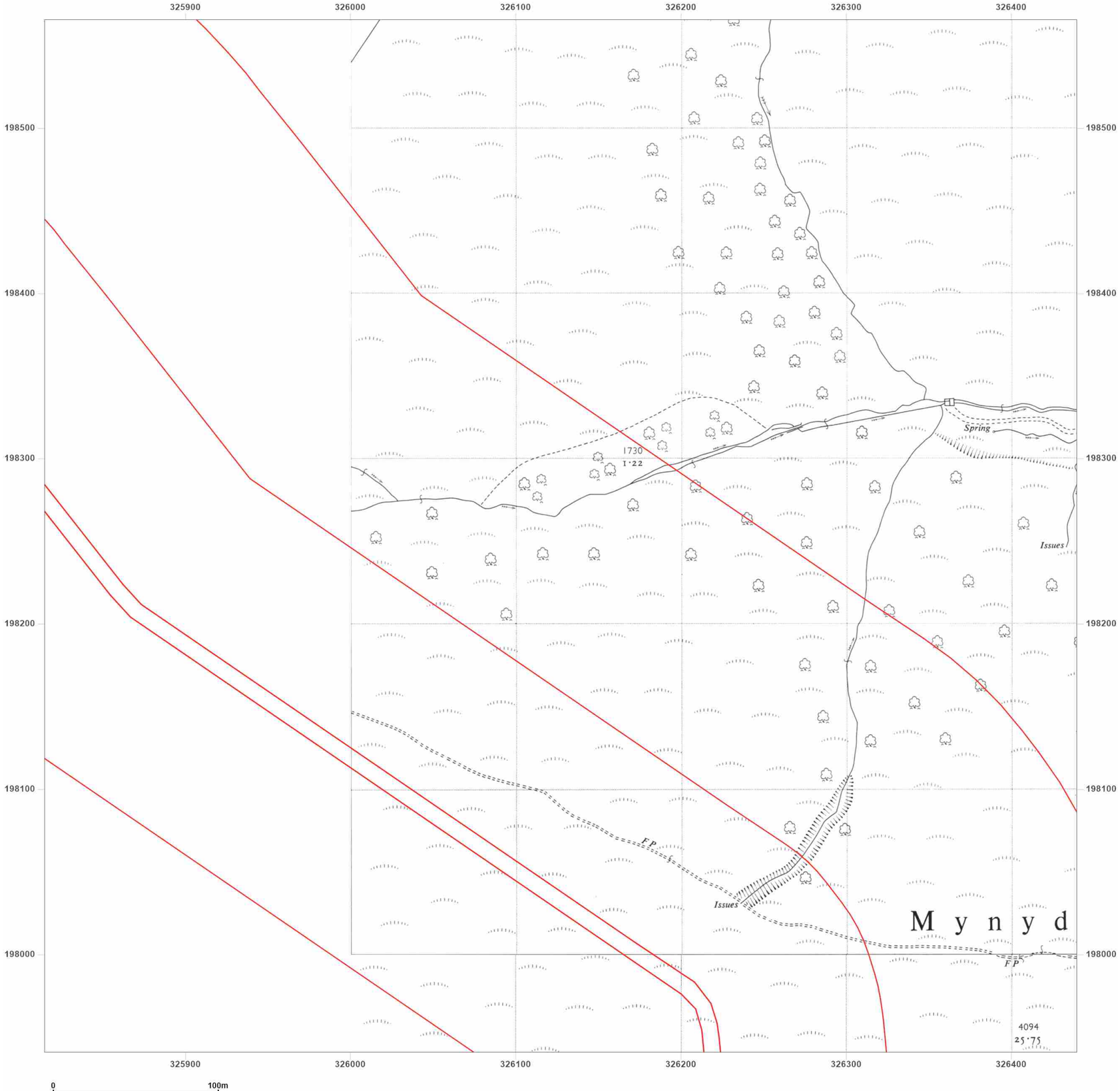
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Production date: 12 September 2025

Map legend available at:
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Site Details:

Rhyswg

Client Ref: Purchase Order P116682UK001
Report Ref: WSP-8YU-BE6-Z1W-L6H_LS_7_7
Grid Ref: 326127, 198253

Map Name: National Grid

Map date: **1962**

Scale: 1:2,500

Printed at: 1:2,500

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Map legend available at:
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Annex C - Site Walkover Photos

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 1
Walls and fencing east along access to T1-T2
51.647094, -3.108800



Photo 2
Trees and fencing along access T1-T2 looking northwest
51.648358, -3.104775

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 3
Looking East towards where T2 is proposed.
51.649126, -3.103079

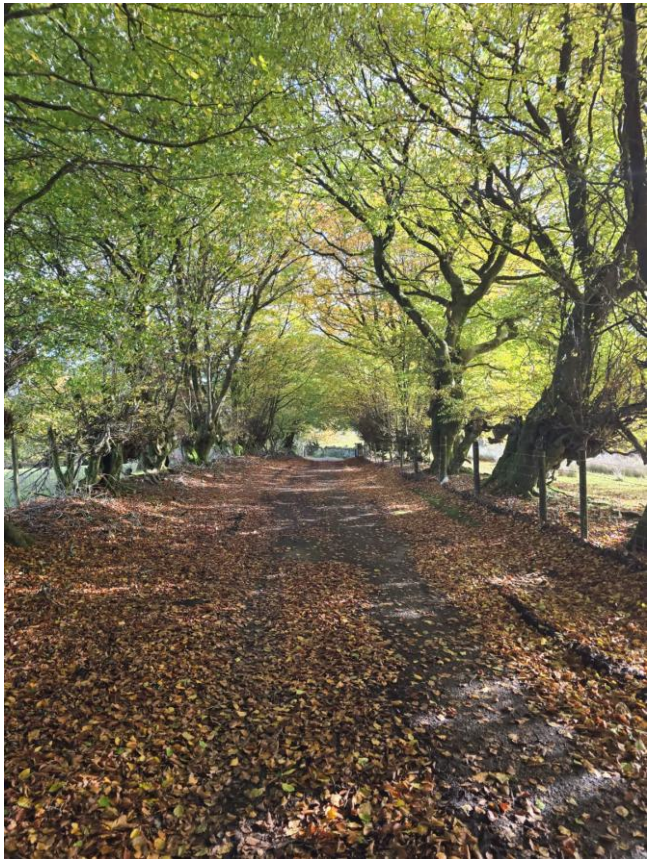


Photo 4
Trees and fencing further east along access to T1-T2.
T2 field on left side
51.648732, -3.104301

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 5
Marsh at the end of T2 field
51.649060, -3.101882

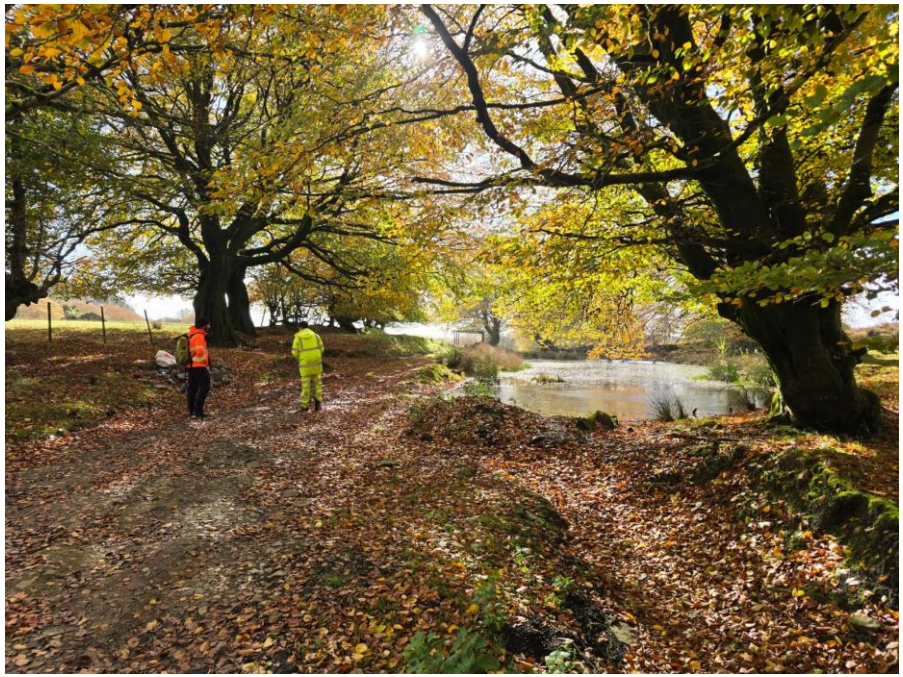


Photo 6
Through gate opposite T2 field looking south along route to T3
51.648910, -3.102322

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 7

Asbestos sheeting south of T2, adjacent to access track heading south. Facing south.

51.648204, -3.102204



Photo 8

Junction looking east along track to T3.

51.647234, -3.102499

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 9
Farm equipment and buildings
51.646985, -3.102618



Photo 10
Storage of agricultural materials in derelict building
51.646869, -3.102624

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 11
Tractor, farm property and barn
51.646806, -3.102808



Photo 12
Facing towards T3 at southern point of branch from junction in photo 8
51.646776, -3.102638

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 13
Field for T3 facing southeast from top of field
51.645795, -3.099936



Photo 14
Landslip facing SE toward T3
51.646599, -3.101714

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 15
Farm buildings along access track to T1 facing southeast
51.646913, -3.109966



Photo 16
Access track to T1 facing west
51.646241, -3.112504

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 17
Abandoned caravan along access track to T1 facing south
51.646220, -3.112362



Photo 18
T1 field facing west
51.646191, -3.114201

PHOTOGRAPHIC RECORD
Rhyswg Wind Farm



Photo 19
Overturned car
(No geotag available)

Annex D - Peat Depth Survey Report

© Wood Group UK Limited

Technical note:
Trecelyn Wind Farm –
Peat Depth Survey Report

1. Introduction

Wood Group UK Limited (Wood) were commissioned by Pennant Walters Limited to complete peat depth probing at the site of the proposed Trecelyn Wind Farm, located over four separate areas approximately 1.5 to 3.0km to the east of Newbridge in Caerphilly, as illustrated in **Figure 1**. The National Grid Reference (NGR) for the four site centres are recorded in Table 1.1.

Table 1. Site Area Locations

Area	Easting	Northing	Topography
1 (Northern Plot)	323240	198230	Set on an area of sloping ground on the western flanks of Mynydd Llwyd ranging from approximately 330m Above Ordnance Datum (AOD) in the west of the site and 410m AOD in the east.
2 (Central Plot – North)	323190	196920	Gently sloping ground at approximately 350m AOD.
3 (Central Plot – South)	323040	196320	The site is situated on gently sloping ground. Ground elevation ranges between 350m AOD in the east and 290m AOD in the west.
4 (Southern Plot)	323750	194780	The site is situated on gently sloping ground along Cefn Rhyswg. Ground elevation ranges between 390m AOD in the east and 350m AOD in the west.

1.1 Scope of Works

The design of the peat survey was developed in general accordance with the Guidance on Developments on Peatland[1].

The Phase 1 survey was undertaken on a 100m x 100m grid of points across the site with peat depth measurement taken at each survey point. This factual report details the findings of the survey works and illustrates the survey points on a peat spot depth plan (included as **Figure 2**).

1.2 Limitations

The peat depth survey was undertaken in accordance with best practice guidance to characterise peat depths across the site. It should be recognised that the survey provides information characterising the variation of peat depths and that different conditions may be present between survey locations.

[1] Scottish Government, Scottish Natural Heritage, SEPA (2017) Peatland Survey. Guidance on Developments on Peatland, on-line version only.

Where utilities were identified a 50m exclusion zone was applied. Therefore, in some localised areas the grid spacing could not be fully adhered to. A Wales and West Utilities Engineer and BT engineer attended site with Wood's site manager to mark out the high-pressure gas main prior to any intrusive works.

2. Desk Study Information

2.1 Pedology

The Cranfield Soil and Agrifood Institute Soilscapes map[2] indicates that the site is covered by freely draining acid loamy soils over rock.

2.2 Geology

The British Geological Survey Geoindex[3] indicates no superficial deposits underlie the site.

The bedrock underlying the site is recorded as sandstone of the Hughes Member.

3. Survey Work

3.1 Methodology

The peat probing survey was undertaken in accordance with the locations and frequencies outlined in Section 1.1 and included the recording of the surveyed peat depths. The survey was undertaken using an extendable carbon fibre utility probe with lengths of probe carried to record depths of up to 8m below ground level (bgl). The probes are pushed into the ground by hand, until refusal on a hard stratum or obstruction.

The recorded depths were inputted into a personal digital assistant (PDA) with global position system (GPS) functionality to allow for a six figure NGR for each location.

The survey records the depth of any soft deposits (including peat) but is not exclusively related to peat depth and may include soft deposits that could also impact windfarm design and construction. No samples were obtained as part of this investigation.

3.2 Survey Findings

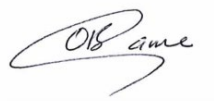
The Phase 1 peat depth survey was undertaken by Wood on the 16th September 2021 during a period of relatively dry weather. The survey comprised a total of 143 probes taken across the four site areas, revealing potential peat depths in the range of between 0.00m and 0.10m. The Welsh Government define true peat as being ≥0.4m in depth. Therefore, the site can generally be considered as not being underlain by peat.

The peat survey data is enclosed in appendix A.

[2] Cranfield Soil and Agrifood Institute, Soilscapes Map, http://www.landis.org.uk/soilscapes/, accessed October 2021.
[3] British Geological Survey Geoindex, http://mapapps2.bgs.ac.uk/geoindex/home.html, accessed October 2021.

4. Summary

The survey indicated that the site is not underlain by peat with the peat probe refusing on hard stratum within the initial 0.1m bgl. The findings of the survey results are illustrated in Figure 2. The majority of the site is considered to be directly underlain by bedrock. However, this should be confirmed with an intrusive ground investigation. A Phase 2 peat survey is not considered necessary.

Prepared / Issued by	Reviewed / Approved by
	
Rich Bagnall	**Ouarda Boumendjel-Game**

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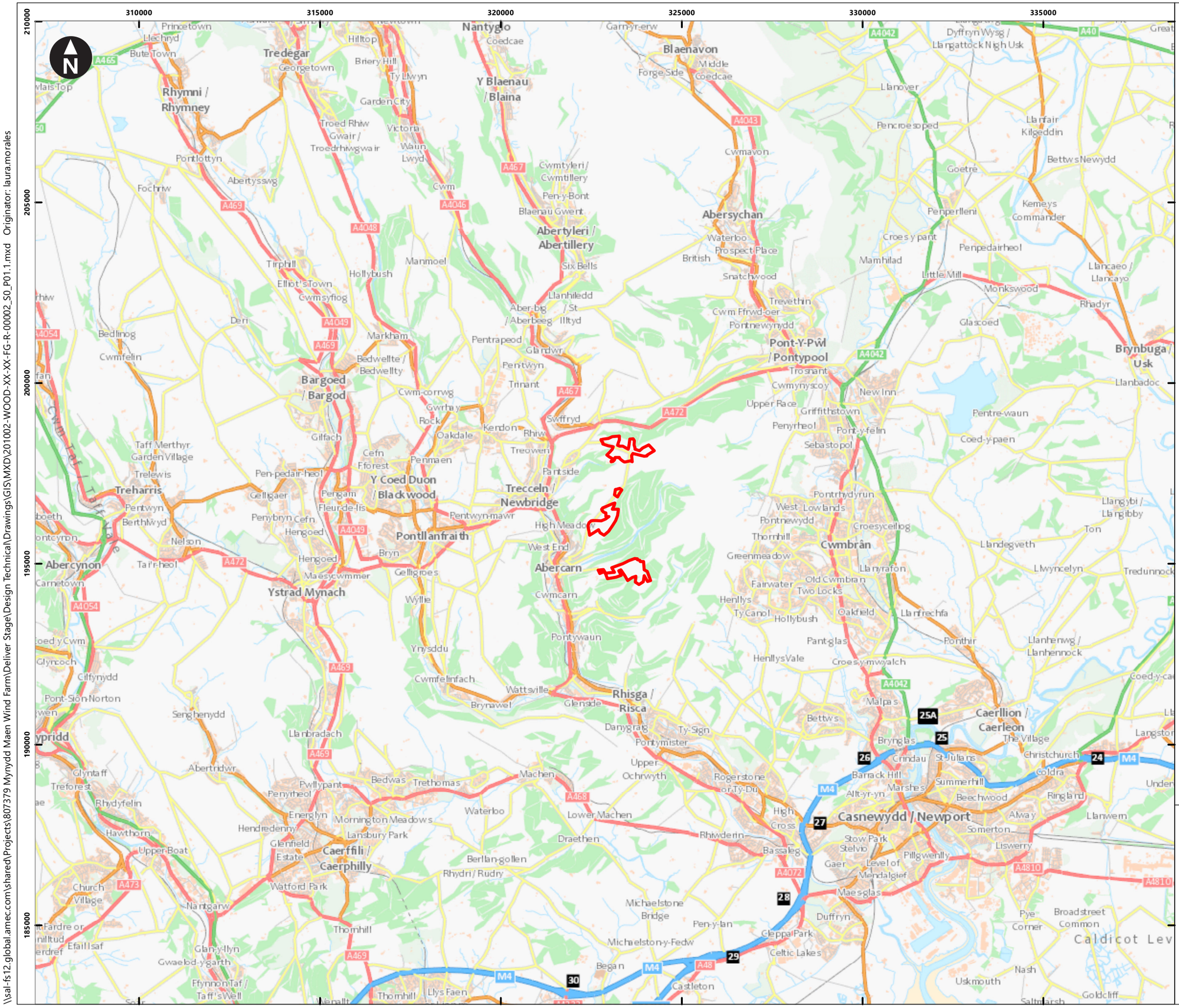
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This document has been produced by Wood Group UK Limited in full compliance with our management systems, which have been certified to ISO 9001, ISO 14001 and ISO 45001 by Lloyd's Register.

Figures



Mynydd Maen Wind Farm
Phase 1 Peat Depth Survey Report

Figure 1.0
Site Location

October 2021

wood.

201002-WOOD-XX-XX-FG-R-00002_S0_P01.1

\\sal-fs12.global.amec.com\shared\Projects\807379 Mynydd Maen Wind Farm\Deliver Stage\Design Technical\Drawings\GIS\MXD\201002-WOOD-XX-XX-FG-R-00002_S0_P01.1.mxd Originator: laura.morales

\\sal-fs12.global.amec.com\shared\Projects\807379 Mynydd Maen Wind Farm\Deliver Stage\Design Technical\Drawings\GIS\MXD\201002-WOOD-XX-XX-FG-R-00001_S0_P01.1.mxd Originator: laura.morales

Area 1
Scale at A3: 1:10,000

Area 4
Scale at A3: 1:10,000

Area 2 and 3
Scale at A3: 1:10,000

Key

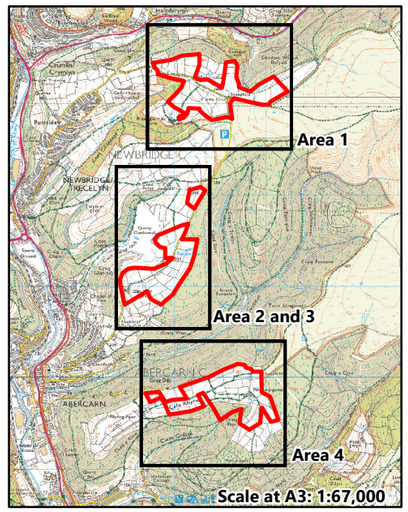
Site Boundary

Survey Constraints

Utilities

Peat Depth (m)

0.0 - 0.1



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Mynydd Maen Wind Farm
Phase 1 Peat Depth Survey Report

Figure 2
Phase 1 Peat Depth Results

October 2021

wood.

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Appendix A – Peat Probing Data

Appendix A
Mynydd Maen
Peat Depth Survey Results

Probe ID	Date	Peat Depth (m)	Easting	Northing
1	16/09/2021	0	322908	196526
2	16/09/2021	0	322813	196525
3	16/09/2021	0	322907	196434
4	16/09/2021	0	322907	196328
5	16/09/2021	0	323151	196511
6	16/09/2021	0	323207	196430
7	16/09/2021	0	323208	196330
8	16/09/2021	0	323106	196327
9	16/09/2021	0	323009	196231
10	16/09/2021	0	323107	196232
11	16/09/2021	0	323187	196234
12	16/09/2021	0	323107	196130
13	16/09/2021	0	323009	196027
14	16/09/2021	0	322997	195931
15	16/09/2021	0	322908	195929
16	16/09/2021	0	322910	195844
17	16/09/2021	0	322811	195830
18	16/09/2021	0	322608	195930
19	16/09/2021	0	322509	195836
20	16/09/2021	0	322511	195927
21	16/09/2021	0	322420	196029
22	16/09/2021	0	322435	196129
23	16/09/2021	0	322561	196193
24	16/09/2021	0	322664	196189
25	16/09/2021	0	323409	194731
26	16/09/2021	0	323315	194690
27	16/09/2021	0	323213	194652
28	16/09/2021	0	323109	194630
29	16/09/2021	0	323009	194627
30	16/09/2021	0.1	323503	194546
31	16/09/2021	0	323510	194626
32	16/09/2021	0.1	323604	194630
33	16/09/2021	0	323734	194582
34	16/09/2021	0.1	323726	194500
35	16/09/2021	0.1	323810	194536
36	16/09/2021	0	323823	194456
37	16/09/2021	0	323907	194529
38	16/09/2021	0	323907	194630
39	16/09/2021	0	323807	194627
40	16/09/2021	0	323504	194733
41	16/09/2021	0	323608	194732
42	16/09/2021	0	323706	194727
43	16/09/2021	0.1	323911	194731
44	16/09/2021	0	323808	194730
45	16/09/2021	0	323811	194824

Probe ID	Date	Peat Depth (m)	Easting	Northing
46	16/09/2021	0	323307	197030
47	16/09/2021	0	323207	197030
48	16/09/2021	0	323207	196930
49	16/09/2021	0	323108	196630
50	16/09/2021	0	323007	196530
51	16/09/2021	0	323007	196430
52	16/09/2021	0	322907	196530
53	16/09/2021	0	322908	196229
54	16/09/2021	0	323007	196130
55	16/09/2021	0	322907	196130
56	16/09/2021	0	322807	196130
57	16/09/2021	0	322907	196030
58	16/09/2021	0	322807	195929
59	16/09/2021	0	322807	196030
60	16/09/2021	0	322707	196030
61	16/09/2021	0	322607	196030
62	16/09/2021	0	322607	196130
63	16/09/2021	0	322707	196130
64	16/09/2021	0	322507	196129
65	16/09/2021	0	322507	196029
66	16/09/2021	0	323106	194908
67	16/09/2021	0	323108	194830
68	16/09/2021	0	322738	194745
69	16/09/2021	0	322707	194830
70	16/09/2021	0	322807	194830
71	16/09/2021	0	323208	194930
72	16/09/2021	0	323207	194830
73	16/09/2021	0	323307	194930
74	16/09/2021	0	323406	195017
75	16/09/2021	0	323407	194930
76	16/09/2021	0	323507	195029
77	16/09/2021	0	323508	194929
78	16/09/2021	0	323607	195030
79	16/09/2021	0	323707	195130
80	16/09/2021	0	323707	195030
81	16/09/2021	0	322823	196201
82	16/09/2021	0	323808	195029
83	16/09/2021	0	323908	195029
84	16/09/2021	0	323907	194930
85	16/09/2021	0	324096	194537
86	16/09/2021	0	324095	194618
87	16/09/2021	0	324008	194627
88	16/09/2021	0	324007	194729
89	16/09/2021	0	323907	194829
90	16/09/2021	0	323808	194930
91	16/09/2021	0	323608	194847
92	16/09/2021	0	323707	194847
93	16/09/2021	0	323607	194930
94	16/09/2021	0	323707	194929

Probe ID	Date	Peat Depth (m)	Easting	Northing
95	16/09/2021	0.1	324210	198130
96	16/09/2021	0.1	324109	198231
97	16/09/2021	0.1	324109	198128
98	16/09/2021	0.1	324007	198230
99	16/09/2021	0.1	324009	198128
100	16/09/2021	0.1	324010	198020
101	16/09/2021	0.1	323907	198128
102	16/09/2021	0.1	323910	198028
103	16/09/2021	0	323804	198060
104	16/09/2021	0	323704	198090
105	16/09/2021	0	323699	198184
106	16/09/2021	0	323605	198431
107	16/09/2021	0	323609	198328
108	16/09/2021	0	323605	198230
109	16/09/2021	0	323607	198125
110	16/09/2021	0	323510	198128
111	16/09/2021	0	323448	198177
112	16/09/2021	0	323404	198231
113	16/09/2021	0	323308	198228
114	16/09/2021	0	323266	198525
115	16/09/2021	0	323267	198423
116	16/09/2021	0	323167	198423
117	16/09/2021	0	323166	198523
118	16/09/2021	0	323062	198506
119	16/09/2021	0	323066	198425
120	16/09/2021	0	323072	198322
121	16/09/2021	0	322969	198425
122	16/09/2021	0	322869	198425
123	16/09/2021	0	322789	198407
124	16/09/2021	0	322859	198366
125	16/09/2021	0	323143	198209
126	16/09/2021	0	323105	198128
127	16/09/2021	0	323007	198031
128	16/09/2021	0	323107	198028
129	16/09/2021	0	323205	198130
130	16/09/2021	0	323307	198114
131	16/09/2021	0	323208	198030
132	16/09/2021	0	323112	197931
133	16/09/2021	0	323062	197842
134	16/09/2021	0	323308	198031
135	16/09/2021	0	323308	197925
136	16/09/2021	0	323410	198030
137	16/09/2021	0	323410	197931
138	16/09/2021	0	323407	197831
139	16/09/2021	0	323518	197845
140	16/09/2021	0	323510	197928
141	16/09/2021	0	323502	198007
142	16/09/2021	0	323607	198022
143	16/09/2021	0	323609	197928

Probe ID	Date	Peat Depth (m)	Easting	Northing
144	16/09/2021	0	323626	197838

Annex E - Coal Mining Risk Assessment

Pennant Walters

RHYSWG WIND FARM

Coal Mining Risk Assessment CMRA



NOVEMBER 2025

CONFIDENTIAL

Pennant Walters

RHYSWG WIND FARM

Coal Mining Risk Assessment CMRA

(FIRST ISSUE) CONFIDENTIAL

PROJECT NO. UK0041469.0596

DATE: NOVEMBER 2025

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File reference	Table text

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2	SUMMARY OF THE SITE AND SURROUNDING AREA	3
3	GEOLOGY AND GROUND CONDITIONS	5
4	MINING REMEDIATION AUTHORITY RECORDS AND REPORTS	10
5	COAL MINING RISK ASSESSMENT	14
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Figure 3-2 – 1: 10 560 BGS Map – 1961 (Copyright British Geological Survey) 6

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Figure 3-4 - 1: 50 000 BGS Map – 1997 (Copyright British Geological Survey) 7

Figure 4-1 – Extract of MRA online data showing Development High Risk Areas (Copyright Mining Remediation Authority) 10

ANNEX

ANNEX A

SITE DEVELOPMENT PLAN

ANNEX B

SITE WALKOVER PHOTOGRAPHIC PLATES

ANNEX C

RSK GEOSCIENCE GROUND INVESTIGATION REPORT

ANNEX D

CONSULTANTS COAL MINING REPORT

ANNEX E

THE COAL AUTHORITY SUMMARY OF FINDINGS PLAN

1 INTRODUCTION

1.1 TERMS OF REFERENCE

WSP UK Limited (WSP) was instructed by Pennant Walters Ltd. (hereafter referred to as “the Applicant”) to undertake a Coal Mining Risk Assessment (CMRA) at the Site of a proposed wind farm development named Rhyswg Wind Farm (the ‘Site’).

1.2 PROPOSED DEVELOPMENT

The Proposed Development is a wind farm consisting of a maximum of three wind turbines, each with a three-bladed rotor with a diameter of up to 136m, a hub height of up to 112m and maximum height to blade tip of 180m.

The application also comprises associated infrastructure including:

- Substation and transformer housing;
- Temporary construction compound;
- Temporary Site offices;
- Crane pads and cabling; and
- Access track construction (approximately 2km).

1.3 AIMS & OBJECTIVES

Whilst the area on which the wind turbines will be situated is noted to be outside of a Development High Risk Area, as designated by the Mining Remediation Authority (Ref. 5), the proposed access track between T2 and the proposed Mynydd Maen tracks does cross two areas which are noted as ‘Development high risk areas’, these are shown in **Figure 4-1**. The relationship between the two developments is described in **Chapter 2: Section 2.6** of the Draft Environmental Statement.

The aim of the report is to assess the potential coal mining-related development constraints that could impact the development of the Site and to support a planning application.

1.4 SCOPE OF WORKS

The purpose of this CMRA is to:

- Present a desk-based review of readily available information on the anticipated ground conditions and coal mining legacy relevant to the Site.
- Use that information to identify and assess the risks to the Proposed Development from the mining legacy.
- Set out appropriate mitigation measures to address the identified mining legacy issues affecting the proposed development, including any ground investigation works and where necessary remedial works.

1.5 SOURCES OF INFORMATION

The following sources of information have been used in the production of this CMRA. There are instances in this report where cross references to the information has been made in text (I.E Ref.X).

Table 1-1 - Sources of Information

Source	Information / References
Public Information	1. British Geological Society (BGS) 1:10,560 Series Geological Map Monmouthshire 23 SW 1908. 2. British Geological Society (BGS) 1:10,560 Series Geological Map Monmouthshire 23 SW Solid and Drift Geology 1961. 3. British Geological Society (BGS) 1:50,000 Series. Sheet 249 – Newport. 1997. 4. BGS 'GeoIndex' online viewer, accessed on 16th October 2025. 5. Mining Remediation Authority Interactive Map Viewer accessed 17th October 2025.
Third Party Information	6. The Mining Remediation Authority Consultants Coal Mining Report for a Site at Rhyswg, Wales. MRA Reference 71009828911001, dated September 2025. (Included In Annex D) 7. Rhyswg wind Farm – Preliminary Risk Assessment PRA. WSP UK. October 2025. 8. Mynydd Maen Wind Farm Phase 2 Site Investigation – Coal Mining Risk Assessment – RSK – 2023. (Included in Annex C) 9. Groundsure – Enviro + Geo Insight (12.09.2025).

1.6 LIMITATIONS

This assessment has been prepared for sole use of the Applicant. This report shall not be relied upon or transferred to any other or unnamed parties without the express written authorisation of WSP. No responsibility will be accepted where this report is used in its entirety or in part, by any other party.

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This report is specifically limited to a desk-based assessment of mining risks which has been supplemented with a Site walkover on the 24 October 2025.

2 SUMMARY OF THE SITE AND SURROUNDING AREA

2.1 SITE LOCATION AND SETTING

The Site is located on high ground, approximately 2km above the towns of Cwmcarn and Abercarn. The Site location and extent is presented in **Annex A**.

WSP undertook a Site walkover on 24 October 2025; the inspection team included a WSP Chartered Geologist. The following description is based on observations made during the walkover and aerial photographs. Pertinent photographs of the Site taken during the walkover are included in **Annex B.** Further detailed observations made during the inspection are set out in **Section 2.2**.

The Site is characterised by open moorland at its easternmost extents. This section of the Site is proposed as an access route to the main wind turbine development Site. The main development Site is characterised by small well-defined parcels of agricultural land bounded by hedgerows and mature treelines. These parcels of land are a mix of arable and livestock farmland with occasional buildings.

A derelict farmhouse lies just outside of the Site Boundary, Rhyswg Ganol Farmhouse, to the south of proposed wind turbine T2. A number of ad-hoc structures such as a caravan and livestock sheds exist along the proposed access route to turbine T1.

The elevation of the Site varies between approximately 350m and 440mAOD. A north-south trending gully is present immediately to the South of the easternmost extent of the access track. To the north of the main development Site, a steeply sloping hillside with well-developed vegetation/forest is present. A gully running northeast to southwest is present immediately to the north of turbine T3.

A pond is located approximately 550m along the proposed access track (See Plate 4). Another pond is located approximately 50m south of proposed turbine T2 (See Plate 8-9).

2.2 SITE WALKOVER

A Site walkover was undertaken on 24 October 2025 by a Chartered Geologist and Assistant Engineer from WSP in order to ground truth historical and geological maps. Key observations are presented below.

Site photographs are presented in **Annex B** and should be consulted with the below summary of the visit:

- The route of the access track to the east of the Site is characterised by open moorland, see Plates 1, 2, 3, 4. With little variation in topography other than at the easternmost extents of the Site where a deep gulley runs in a north/south orientation, see Plate 7. This is at the projected location of a fault at surface. Weathered sandstone was noted to be present within the track which crosses this gulley.
- A pond is located approximately 500m along the proposed access track, see plate 4. Immediately to its south, a narrow trough (<3m wide and <1m deep) was noted, running north/south, see plate 3.
- No observation of the two mapped outcropping coal seams was made. Given the vegetation cover and soil cover, coal may still crop at shallow depth but may be obscured.
- Within the vicinity of T2, a localised depression and low point in the topography was noted running north/south along the approximate alignment of the access track to Rhyswg Ganol farm.

A pond is also present within this low point in the topography, see Plate 8. This low point runs along the same trajectory as the mapped fault at surface shown on 1; 50 000 and 1; 10 560 scale geological mapping and is interpreted as such.

- All three turbine locations are within open pasture farmland with consistent topography. No observations were made of features suggestive of historical mining hazards at surface.

3 GEOLOGY AND GROUND CONDITIONS

3.1 PUBLISHED GEOLOGY

The BGS Geology Viewer, and BGS 1:50 000 and 1:10 560 scale mapping, extract as **Figure 3-1** to **Figure 3-4** below, have been reviewed, with the key findings summarised below:

- No Made Ground is mapped at the Site. Due to localised quarrying on Site, Made Ground may nevertheless be present. Localised areas of Made Ground are also likely due to the presence of access tracks and buildings.
- No superficial geology is mapped underlying the Site, suggesting shallow bedrock is present. Head Deposits are shown to be present to the south the Site on the BGS Geology Viewer. Localised zones of Peat may be present across the moorland at the eastern extents of the Site.
- Bedrock geology is mapped as the Hughes Member, described as 'Pennant Sandstones' with thin Mudstones/Siltstones and Seatearth interbed with mainly thin coals. This is shown to underlie the entire Site.
- An inferred north-south trending fault at surface is shown on the 1: 10,560 geology maps to run through the approximate location of turbine T2, adjacent to the pond. This approximate location does form a low point within the topography which follows a north-south trend. See Plate 9 in **Annex B**. A north – south trending fault is recorded to be present in the Lower Nine-Feet Seam, most likely the inferred fault at surface, at approximately -62mAOD (-200ft AOD). This is indicated to have a throw of approximately 10m (33ft).

The following coal seams are indicated to sub-crop beneath the Site on the 1:10 560 scale mapping (1961) - **Figure 3-2** & **Figure 3-3**:

- The '9 ft' (Black) (Lower Nine Feet sub-crops at between 62mAOD (200ft AOD) and -155mAOD (-500ft AOD) beneath the footprint of the Site. Its shallowest 'sub-crop' is shown to be at the easternmost extents of the access track. Its deepest sub-crop, -155mAOD (-500ft AOD) is shown to be at the approximate location of the westernmost proposed wind turbine (T1). For reference, the Site generally lies between 350 and 430m AOD.

The Cefn Glas (Tillery Rider) is conjectured to outcrop at ground surface approximately 60m below the level of all three wind turbines, but also at two locations in the eastern part of the Site along the proposed access track.

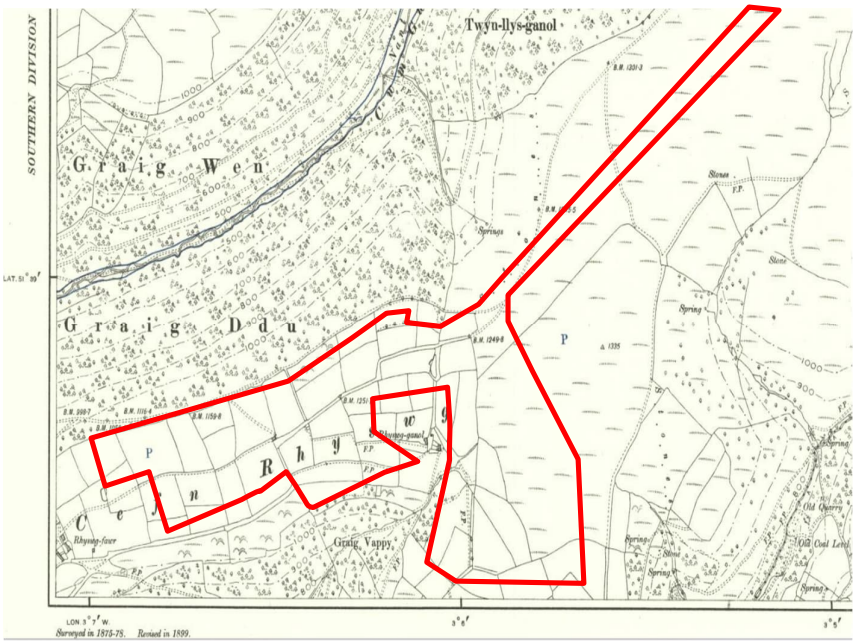


Figure 3-1 - 1: 10 560 BGS Map – 1908 (Copyright British Geological Survey)

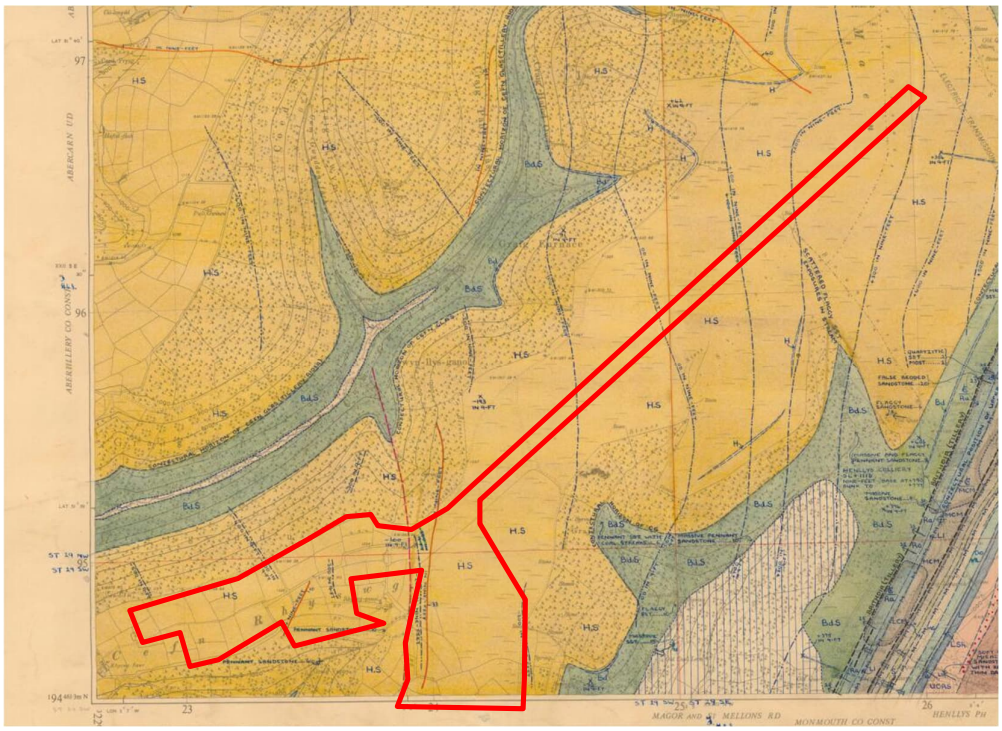


Figure 3-2 – 1: 10 560 BGS Map – 1961 (Copyright British Geological Survey)

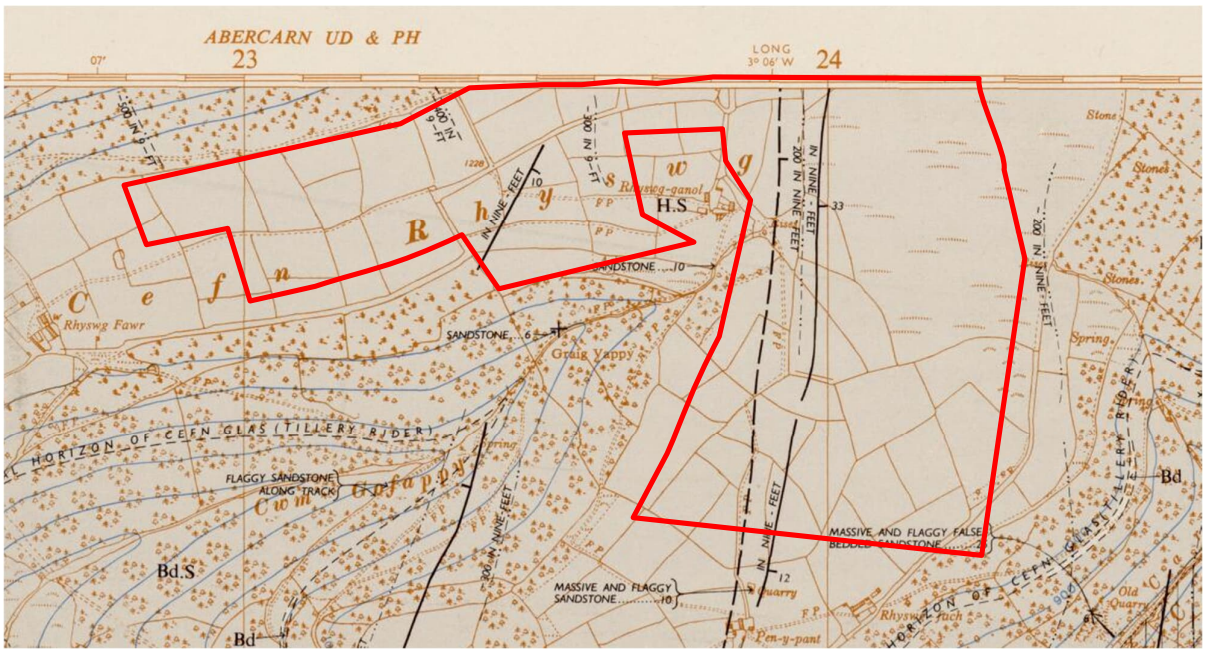


Figure 3-3 - 1: 10 560 BGS Map – 1965 (Copyright British Geological Survey)

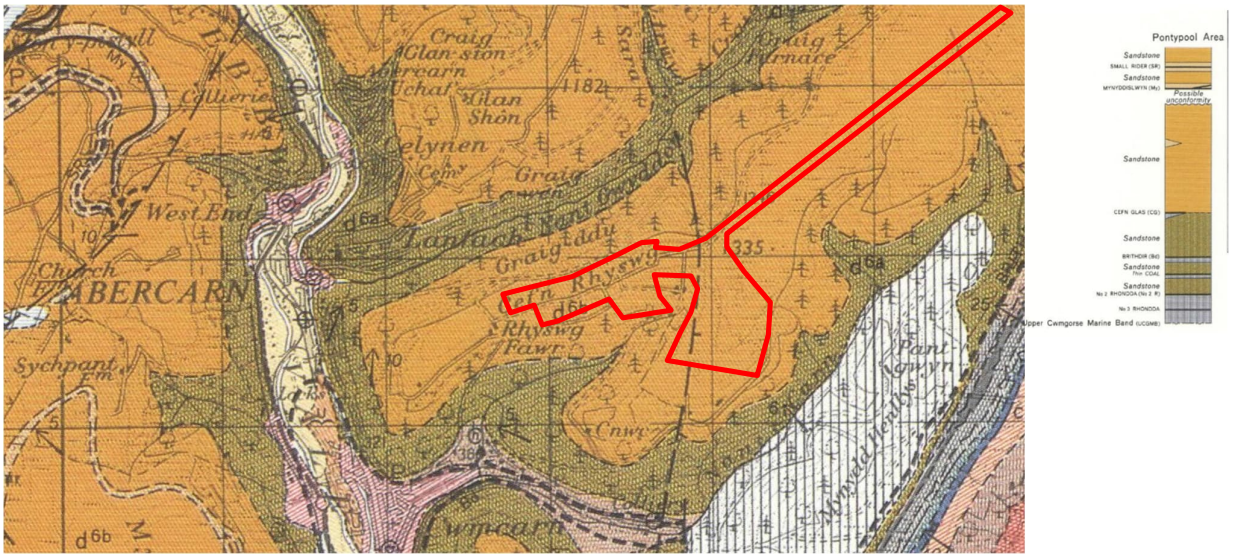


Figure 3-4 - 1: 50 000 BGS Map – 1997 (Copyright British Geological Survey)

3.2 HISTORICAL BGS BOREHOLES

A single historical British Geological Survey borehole (ST29SW179) within close proximity, approximately 250m, to the Site is recorded. The borehole appears to be for assessing groundwater yield and therefore geological descriptions are scant. Reference is made to 'Sandstones' and 'Upper Coal Measures' however no further detail is contained within the log.

3.3 HISTORICAL PRELIMINARY GROUND INVESTIGATION INFORMATION

A preliminary ground investigation was undertaken in March 2023 by RSK Geosciences for the Mynydd Maen Wind Farm project (Ref.8) which comprises 13 wind turbines. A copy of the report is presented in **Annex C.** The Site is located to the north-east of the proposed Rhyswg Wind Farm and its southernmost extents are linked to the easternmost extents of the proposed access tracks for the Proposed Development.

Four Trial Pits and four Rotary Open Hole boreholes were completed at the locations of selected wind turbine locations.

Exploratory hole locations generally encountered Peat to a depth of 0.20 to 0.60m, underlain by 'Clay/Sand/Gravel' to between 0.65 and 1.80mbgl, underlain by 'Sandstone Bedrock to a maximum proven depth of 20.00mbgl.

The closest borehole location to the Site is approximately 700m north east of the easternmost extents of the Rhyswg Wind Farm access track. It recorded 'Grey Sandstone (Hughes Member)' at 1.00mbgl and was proven to a maximum depth of 20.00mbgl.

No evidence of shallow coal seams or underground workings were recorded by the Ground Investigation. The report concluded that there was '*Low or negligible risk from coal mining related hazards*'.

3.4 HISTORICAL INDUSTRIAL LAND USE

Historical Industrial land use has been obtained from Groundsure Enviro + Geo Insight (Ref. 9).

On-Site:

- No historical industrial land use is shown On-Site.

Surrounding area (within 250m of the Site):

The available historical map information shows the following:

- Unspecified ground workings (1981 – 1989) – 16m NE of the Site. Within close proximity to turbine T2.
- Unspecified quarry. (1922 and 1948) – 204m south of Site. South of turbine T3.
- Unspecified quarry. (1879-1889 & 1938 – 1948) – 213m west of Site. West of turbine T1.

3.5 HISTORICAL SITE DEVELOPMENT

Below presents an overview of the main historical developments extracted from the historical maps presented in the Groundsure report.

- 1875 – 1881: Rhyswg Ganol farm is present between the proposed location of turbines T2 and T3. A pond is also located to the north of Rhyswg Ganol. Boundary stones shown on maps to define extents of mineral rights, see Plate 6**, Annex B**;

- 1922: Sheepfold located adjacent to pond;
- 1948: Electricity transmission lines shown to run south east to north west across access track eastern extents;
- 1963: No change;
- 1970: No change;
- 2001: Pond shown to be present to north of access track;
- 2010: No change; and
- 2025: No change.

4 MINING REMEDIATION AUTHORITY RECORDS AND REPORTS

4.1 MINING REMEDIATION AUTHORITY ONLINE AND GEOGRAPHIC INFORMATION SYSTEM (GIS) INFORMATION

The Mining Remediation Authority (MRA) online viewer (Ref. 5) and GIS information obtained for the Site have been reviewed to inform this CMRA, with pertinent details summarised in the following sections. The GIS information generally correspond with the online viewer information. The MRA Consultants Report is presented in **Annex D and Annex E**.

4.1.1 DEVELOPMENT HIGH RISK AREAS (DHRA)

The Development High Risk Areas (DHRA) are shown to be present crossing the proposed access track, as shown as purple zones in **Figure 4-1**. These DHRAs relate to 'Coal outcrops' associated with the Mynydd Islwyn Lower Leaf.

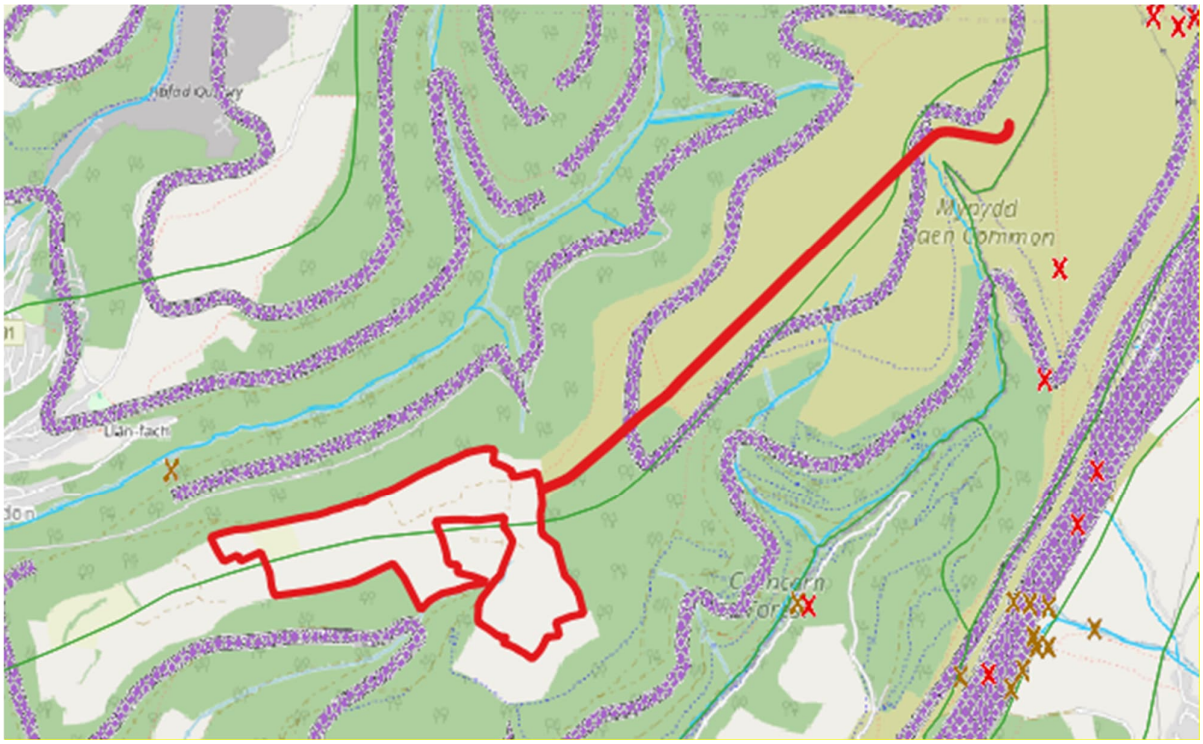


Figure 4-1 – Extract of MRA online data showing Development High Risk Areas (Copyright Mining Remediation Authority)

Based upon the Site walkover completed on 24 October 2025, no indication of outcropping coal was observed at either location noted on the MRA online viewer. However, it is noted that given the known ground conditions, a shallow veneer of peat/clays may have obscured outcropping coal.

4.1.2 MRA Recorded coal seam Outcrops

One coal seam outcrop is shown to be present within the area of proposed access track. The MynyddIslwyn Lower Leaf. No evidence of outcropping coal seams was identified during the Site walkover. As noted, the presence of a recorded coal seam outcrop(s) is the basis for the definition of

part of the Site as a 'Development High Risk Area'. There is no clarification within the dataset as to whether this is a recorded or inferred outcrop.

4.1.3 PROBABLE UNRECORDED SHALLOW COAL MINE WORKINGS

No areas of probable unrecorded shallow coal mine workings are shown on the MRA online dataset. The closest example is approximately 750m to the west of the Site Boundary.

4.1.4 RECORDED SHALLOW COAL MINE WORKINGS

None recorded.

4.1.5 SURFACE MINING (PAST AND CURRENT)

None Recorded

4.1.6 MINE ENTRIES

None Recorded within the Site Boundary. A single Adit is recorded on both British Geological Survey and Mining Remediation Authority database to the north west of the Site as an elevation of approximately 150m AOD. It is shown to enter the hillside in a south easterly orientation (104 degrees). The Mine Entry Reference is 322195-001.

4.1.7 SHALLOW SPINE ROADWAYS

None Recorded.

4.2 MINING REMEDIATION AUTHORITY CONSULTANTS COAL MINING REPORT

An MRA *Consultants Coal Mining Report* (CCMR) was obtained for the Site by WSP. A copy of the CCMR is included in **Annex D.**

4.2.1 PAST UNDERGROUND MINING

The following seams have historically been worked beneath and/or near to the Site Boundary:

- Tillery Brithdir: Worked between 1934 to 1975 at depths ranging between 179 to 203m. Generally, the seam dipped to the south-west at between 3.4 to 5 degrees and was extracted at thicknesses between 0.80 and 1.20m. Outside of the Site Boundary.
- Four Foot: Worked between 1956 – 1963 at depths between 297 – 425m. Generally, the seam dipped so the west at between 3.7 and 9.1 degrees and had an extraction thickness between 1.40 and 1.90m. Outside of the Site Boundary.
- No.2 Rhondda: Worked in 1887 at a depth of 298m at a dip of 2.7 degrees in a north-western orientation. With an extraction thickness of 0.84m. Outside of the Site Boundary.
- Seven Foot Rider: Worked between 1911 and 1981 at depths between 340 and 520m in a westerly inclination between 4.6 and 8.2 degrees. With an extraction thickness of 1.88 to 2.74m. Outside of the Site Boundary.
- Lower Nine Foot: Worked between 1861 and 1933 at depths between 342 and 503mbgl. In a westerly dip of between 2.7 to 10.2 degrees. With an extraction thickness of 2.00 to 3.00m. Within the Site Boundary.

- Upper 6ft Rider: Worked between 1957 and 1959 at a depth between 419 and 433m in a south westerly orientation between 3.2 and 5.3 degrees. With an extraction thickness of 0.90 to 1.00m. Outside of the Site Boundary.
- Five foot Gellideg: Worked in 1949 at a depth of 468m. With an extraction thickness of 1.50m at an inclination of 5.9 degrees to the west. Outside of the Site Boundary.

It is noted that based upon the BGS 1:10 560 geological maps, only the Lower Nine Foot is shown to underlie the Site at levels between 62mAOD (200ft AOD) and -93mAOD (-300ft AOD). It is also highlighted that the Cefn Glas is shown subcrop to the north of the Site. This may have been informally worked and may be associated with the adit entry noted in section 4.1.6.

4.2.2 SUMMARY OF FINDINGS

- No probable shallow workings are indicated within the enquiry boundary.
- No spine roadway recorded at shallow depth.
- No mine entries recorded within 100m of the enquiry boundary.
- The Mynydd Islwyn Lower Leaf outcrop is present within the enquiry boundary. It is recorded as a ‘workable seam’ and the outcrop is noted at a number of locations within the Site boundary.
- No opencast mines recorded within 500m of the enquiry boundary.
- No recorded remediated Site within 50m of the enquiry boundary.
- No Coal Authority managed tips within 500m of the enquiry boundary.
- No recorded mine gas or mine water treatment schemes within 500m of the enquiry boundary.
- The MRA 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 that may affect the enquiry boundary.
- No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.
- The Coal Authority has not received a damage notice of claim for the subject property or any property within 50m of the enquiry boundary, Since 31 October 1994.
- No future underground mining is recorded.
- No coal mining licensing is recorded within 200m of the enquiry boundary.
- No court orders are recorded.
- The property is in an area where notices to withdraw support were given in 1955, 1962, 1975, 1976 and 1982.

4.3 MINING REMEDIATION AUTHORITY ABANDONMENT PLANS

It is understood that mine abandonment plans are available for relevant workings underlying the Site. Given the depth of the worked seams, it is considered that the risk to the Site from workings is low risk and therefore abandonment plans have not been obtained. However, on-going creep type movements may occur, given the low tolerance to ground movement of turbines the detailed designer must ascertain for themselves that these working will have no impact upon the wind turbines.

4.4 COAL AND IRONSTONE SEAMS WITHIN INFLUENCING DEPTH OF GROUND LEVEL

Based on the reviewed MRA and BGS records, there is one coal seam that sub-crops beneath the Site, the Lower Nine Foot. Based upon the recorded depths of the seam beneath the Site, ranging between 62mAOD (200ft) and -93mAOD (-300ft AOD). The Site lies at elevations between 350 to 430mAOD, indicating that the worked seam is between 200 to 400m below ground level across the Site. It is considered that the risk of this worked coal seam being present at shallow depths within the Site Boundary is very low.

Available records suggest that the Lower Nine Foot was extracted at thicknesses between 2.00 and 3.00m.

Based on the recorded dip of the worked seam ~5 degrees to the west, there is a trend of deepening of the coal seam to the west. Given the locations of the proposed wind turbines, the depth of seam below ground level at their locations is likely to be at the upper end of the quoted value of 400m below ground level.

Given the depths and thickness of the worked Lower Nine Foot seam below ground level, the risk of collapsed workings influencing ground stability at surface level across the Site is considered very low.

5 COAL MINING RISK ASSESSMENT

Based on the information obtained from the sources referenced in Section 1 and reviewed in Sections 3 and 4, an assessment of Coal mining related risks to the Proposed Development has been undertaken.

5.1 RECORDED COAL MINING AT SHALLOW DEPTH

No coal mining at shallow depth is recorded. The risk from shallow coal mining beneath the Site is therefore considered to be **Low**.

5.2 RECORDED COAL MINING AT GREATER DEPTH

Based on the reviewed MRA and BGS records, there is one coal seam that sub-crops beneath the Site, the Lower Nine Foot. Recorded levels of the seam beneath the Site range between 62mAOD (200ft) and -93mAOD (-300ft AOD) and was extracted at thicknesses up to 3.00m. The Site lies at elevations between approximately 250mAOD to 430mAOD, indicating that the worked seam is between 200 to 400m below ground level across the Site. It is considered that the risk of this worked coal seam impacting ground level stability is **Low**. Given the depths of the worked Lower Nine Foot seam below ground level, the risk of collapsed workings influencing ground stability at surface level across the Site is considered to be **Low**.

5.3 UNRECORDED COAL MINING AT SHALLOW DEPTH

The MRA records indicate that there are no areas of probable shallow mine workings present beneath the Site.

Available historic ground investigation within the RSK report did not record any evidence of shallow mine workings. The presence of unrecorded mine workings with insufficient rock cover at this stage is considered to be **Low.** However, it should be noted that due to the recorded coal seam outcrops across the proposed access track that the risk cannot be excluded.

5.4 SURFACE MINING (OPENCAST WORKINGS)

The MRA records and historical mapping do not record any opencast coal mining across the Site. An ‘Unspecified Ground Workings’ is recorded to the north of proposed turbine T2, however, this is likely to be localised quarrying at surface level. The risk from opencast workings is considered to be **Low.**

5.5 MINE ENTRIES

No mine entries are recorded within 100m of the Site Boundary.

5.6 COAL MINING GEOLOGY

The MRA has no records of any damage due to geological faults or other lines of weakness that have been caused by coal mining and as such this risk is considered to be **Low**. It is recorded that the presence of the pond in the vicinity of the turbine T2 and the recorded fault at both surface and within the Lower Nine Foot may suggest historical movement associated with mining.

5.7 MINE GAS EMISSIONS

The MRA has no record of past mine gas emissions requiring action. However, due to the recorded mine workings and probable unrecorded mine workings beneath the Site, there is potential for any mine gases if present to migrate to the surface through fissures within the bedrock and superficial strata. The accumulation of mine gases in confined spaces poses a risk to human health receptors and the Proposed Development. Cable troughs will likely be required and the risk associated with these activities and any other confined spaces should be considered as part of the development. It is assessed that due to the depth of workings that this risk considered **Low.**

5.8 RECORDED COAL MINING SURFACE HAZARD

The Site has not been subject to remedial works, by or on behalf of the MRA, under its Emergency Surface Hazard Call Out procedures and as such this risk is considered to be **Low**.

5.9 SUMMARY OF ASSESSED COAL MINING RISKS

Table 5-1 - Coal Mining Risk Assessment Summary

Coal Mining Risk	Risk Assessment/Comment	Requires further mitigation/investigation?
Underground coal mining (recorded at shallow depths i.e. <30m bgl).	**Low Risk** No shallow coal mining recorded beneath the Site. Shallow/Outcropping coal seams recorded.	Yes. See Section 6
Deep recorded mine workings (>30m bgl)	**Low Risk** Deep coal mining recorded at depths between 342-503m below ground level according to the Consultants Report. Considered Low Risk.	Yes. See Section 6
Underground coal mining (probable at shallow depths) i.e. unrecorded workings	**Low Risk**	Yes. See Section 6
Surface mining (opencast workings)	**Low Risk** The MRA records no historical surface mining/workings.	Not required
Mine entries	**Low Risk** No mine entries recorded within Site footprint.	Not required
Coal mining geology (fissures)	**Low Risk**. The MRA has no record of damage due to geological faults or other lines of weakness. Presence of pond adjacent to mapped fault at surface and depth.	Yes, See Section 6
Record of past mine gas emissions	**Low Risk**. The MRA has no records of past mine gas emissions affecting the Site.	Not required

Potential for mine gas emissions	**Low Risk**. Due to the deep nature of recorded working's, mine gas migration is considered very unlikely.	Yes, See Section 6
Recorded coal mining surface hazard	**Low Risk** The Site has not been subject to remedial works, by or on behalf of the Mining Remediation Authority, under its Emergency Surface Hazard Call Out procedures.	Not required

6 CONCLUSIONS AND PROPOSED FURTHER WORKS

The following conclusions and proposed further works are proposed.

6.1 RISK FROM RECORDED DEEP MINING

The MRA records workings of the Lower Nine Foot at depths of 342 to 503m bgl with a worked thickness ranging between 2.00 to 3.00m. Whilst the risk of influence ground stability at surface level due to these workings is considered very low, it is recommended that mine abandonment plans associated with these workings are obtained and interpreted for completeness of records. At the location of turbine T2, the north-south trending fault at both surface and within the Lower Nine Foot is noted. It is possible that this feature may have an impact on the development of the turbine. It is recommended that ground investigation works are undertaken to assess the ground conditions at this location as well as turbine T1 and turbine T3.

Whilst the risk is considered low, as part of any geotechnical investigation, it is recommended that rotary boreholes are undertaken at the location of each turbine to confirm the level of competent rock cover and provide an indication of any influence of deep mining collapse on the rockmass.

On-going, small creep type movements may still be occurring associated with these workings, given the low tolerance to ground movement of turbines the detailed designer must ascertain for themselves that these workings and any associated movements will have no impact upon the long term stability and performance of the wind turbines or any other related structures/infrastructure.

6.2 RISK FROM UNRECORDED SHALLOW MINE WORKINGS

MRA information shows no areas of probable shallow mine workings to be present within the Site extents. However, there are recorded/conjectured coal outcrops which cross the access track to the east of the main development. Whilst the risk of unrecorded shallow mine workings is considered low, it is recommended that as part of any geotechnical ground investigation works, that trial pits are undertaken at any intersection of the access track and recorded coal outcrops.

Should evidence of shallow mine workings/mining related impact on ground stability be recorded within trial pits, it is recommended that further investigation is undertaken to assess the underlying strata for unrecorded shallow mine workings.

If encountered, unrecorded shallow mine workings with insufficient solid rock cover would likely require remediation as part of any Site development enabling works. This may require use of high strength geogrids to manage the impacts of any ground movement below the proposed structures and roads/hardstanding areas, or stabilisation by grout injection.

6.3 RECORD OF PAST MINE GAS EMISSIONS OR POTENTIAL

The risk from mine gas has been considered, as far as is required within the scope of a CMRA and with the information currently available, with consideration of the possible receptors of mine gas within the proposed works. Possible receptors of mine gas are enclosed spaces with access for personnel.

Foreseeable receptor of mine gas within the proposed development is mainly the substation building. A mine gas risk assessment (MGRA) in accordance with CL:AIRE guidance document ‘Good Practice for Risk Assessment for Coal Mine Gas Emissions’, 2021 is likely to be required to

assess the risk of mine gas when installing cable ducts or where deeper excavation works are required.

Intrusive ground investigation with mine gas monitoring should be completed during future ground investigations to inform a MGRA. The intrusive investigations should target the proposed locations of possible receptors of mine gas and install exploratory holes in those areas with gas monitoring instruments.

Annex A

SITE DEVELOPMENT PLAN

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N

T1

T2

T3

0 125 250 500

Metres



Legend

- EIA assessment area
- Turbine location
- Crane pad
- Crane pad storage
- Substation
- Compound
- Access track
- Extent of rotor (assumed 136m dia.)
- 180m offset (assumed tip height)
- 85m offset for bat protection (from tower)
- 50m offset for PROWs (from tip)

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ORDNANCE SURVEY AC0000808122.

wsp

PROJECT TITLE:

RHYSWG WIND FARM

DRAWING TITLE:

FIGURE 1-2:
SITE LAYOUT PLAN

CONFIDENTIALITY

PUBLIC

DRAWN:	CHECKED:	APPROVED:	AUTHORISED:
JP	LB	XX	XX

SCALE @ A3 SIZE:	DATE:	REVISION:
1:10,000	29/09/2025	P01.1

DRAWING NUMBER:

UK0041469.0596-WSPE-FG-MD-00002_P01.1

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Annex B

SITE WALKOVER PHOTOGRAPHIC PLATES

Confidential



Plate 1: Location of proposed access track to east of wind turbine locations



Plate 2: Location of proposed access track – Looking west towards wind turbine locations



Plate 3: Small trough in ground – Looking east along access track



Plate 4: Pond located north of access track (~25m)



Plate 5: Typical vegetation cover along access track (Eastern extents)



Plate 6: Tombstone delineating minerals boundary (Easternmost extents of access track).



Plate 7: Easternmost extents of access track – north south running valley.



Plate 8: Pond located near to access to T2



Plate 9: Pond located near to access to T2 – Approximate location of mapped fault (North-South). Pond lies in low point.



Plate 10: Location of T2. Sloping ground to north.



Plate 11: Location of T3 – Open field with mature tree border.



Plate 12: Exsiting access between T3 and proposed access track



Plate 13: Exsiting access between T3 and T1.



Plate 14: Proposed location of T1. Open agricultural land.



Plate 15: Proposed access route to T1

Photographic Plate Location Index (Copyright Google Earth)



Annex C

RSK GEOSCIENCE GROUND INVESTIGATION REPORT

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Renewable Energy Systems Limited

Mynydd Maen Wind Farm

Phase 2 Site Investigation - Coal Mining Risk Assessment

315198-R02 (03)

RSK GEOSCIENCES

September 2023

RSK GENERAL NOTES

Project No.: 315198

Title: Phase 2 Site Investigation - Coal Mining Risk Assessment: Mynydd Maen Wind Farm, Cwmbran NP11 5AY

Client: Renewable Energy Systems Limited

Date: September 2023

Office: RSK Environment Limited, The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel 0117 947 1006

Status: Report R02 Rev 03

Author	Rachael Lockyer	**Technical reviewer**	Gary McGuicken
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Signature		Signature	

Revision control sheet				
Revision ref.	**Date**	**Reason for revision**	**Amended by:**	**Approved by:**
Rev 00	22/05/23	First issue	n/a	see above
Rev 01	18/08/23	Updated drawings	RL	See above
Rev 02	11/09/23	Updated drawing	RL	See above
Rev 03	04/06/24	Updated drawing	RL	See above

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Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by RSK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

This work has been undertaken in accordance with the quality management system of RSK Environment Ltd. No part of this report may be copied or duplicated without the express permission of RSK and the party for whom it was prepared.

Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

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FIGURES

Figure 1 Site location plan

Figure 2 Site layout plan

Figure 3 Exploratory hole location plan

APPENDICES

Appendix A Service constraints

Appendix B Development drawings

Appendix C Utility service plans

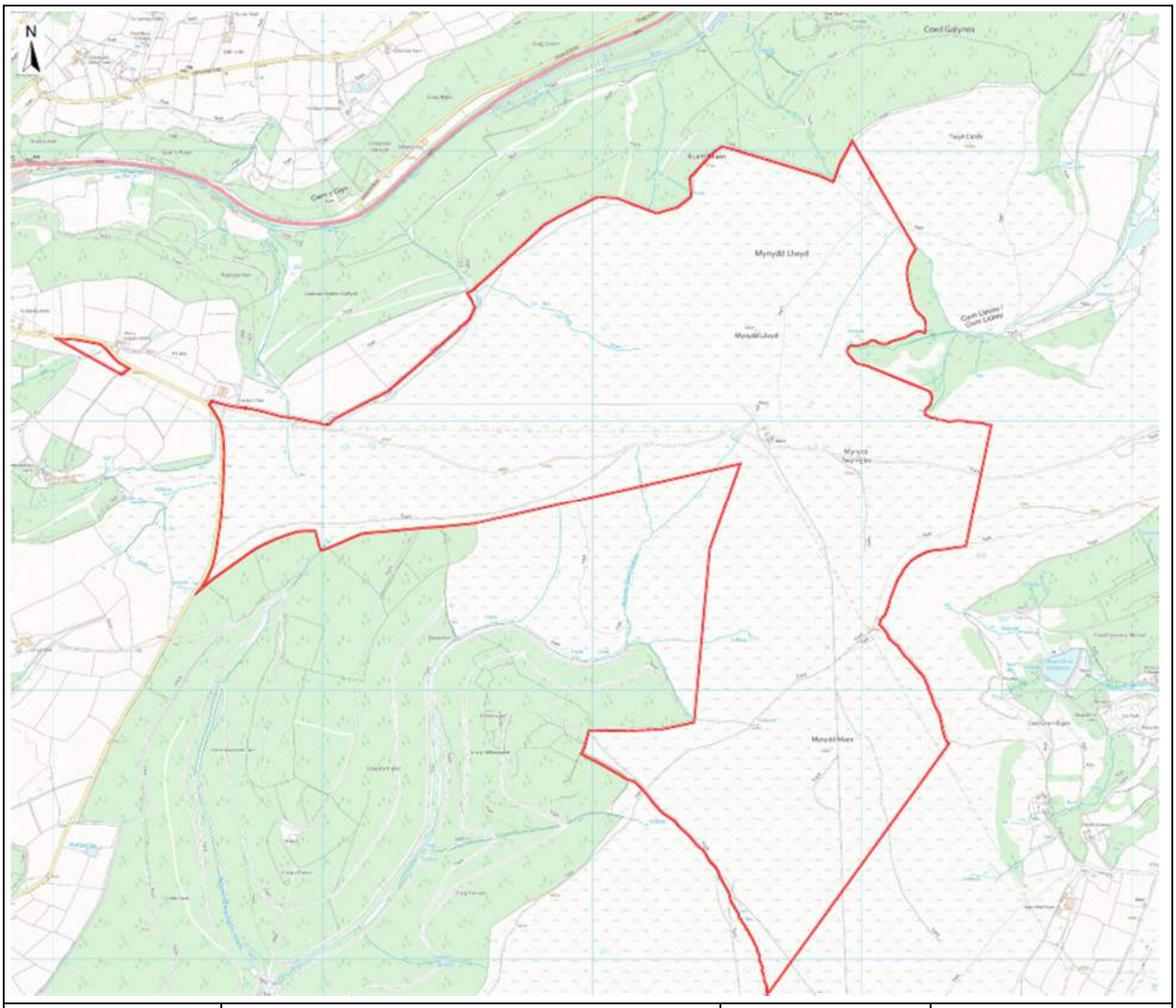
Appendix D Photographs

Appendix E Technical background

Appendix F Exploratory hole records

EXECUTIVE SUMMARY

Commissioning and purpose of assessment	RSK Environment Limited (RSK) was commissioned by Renewable Energy Systems Limited to carry out a Phase 2 Site Investigation - Coal Mining Risk Assessment of the land at Mynydd Maen Wind Farm, Cwmbran, NP11 5AY, grid reference ST 25754, 97735. The overall aim of this work was to assess potential coal mining risks identified in an earlier phase of work.
DESK-BASED ASSESSMENT	
Site description and proposed development	The site currently comprises of rough moorland and covers approximately 2000 hectares. The proposed development is a wind farm.
Previous site investigation (SI) reports	In March 2023, RSK undertook a desk based CMRA for Mynydd Maen based on the available data at that time. The site specific coal mining risk which required further assessment (by subsequent intrusive investigation the findings of which are presented in this report) included the possible presence of shallow underground workings in the Mynyddislwyn coal seam.
Geology and environmental setting	The site is underlain by peat, over the Hughes member sandstone according to published geological data. Records from the Coal Authority indicate the potential presence of 4 shallow coal seams across the site including the Tillery Rider No.2, Mynyddislwyn Lower Leaf, Cefn Glas and Brithdir coal seam.
INTRUSIVE INVESTIGATION & ASSESSMENT	
SI scope	Four rotary open hole boreholes and four trial pits at each of four proposed turbine locations (T3, T7, T8 and T11).
SI factual findings	The site is underlain by a layer of peat (between 0.20m to 0.6m thick) over varying amounts of clay, sands and gravels with sandstone bedrock encountered at 1.0m to 2.1m bgl. Generally groundwater was not encountered except for a small seepage found in trial pit T3(RO) at 0.6mbgl. No evidence of coal seams or workings were recorded in any of the exploratory holes.
Coal Mining Risk Assessment	Based on the exploratory findings, it is considered that there is a low or negligible risk from coal mining related hazards at the assessment site, which will have little or no effect on the proposed development.
Recommendations including issues for further assessment	No further investigation or remediation with regards to coal mining hazards is required at the assessment site.
The information given in this summary is necessarily incomplete and is provided for initial briefing purposes only. The summary must not be used as a substitute for the full text of the report.	



Site Name	Mynydd Maen Wind Farm	NGR	ST 25754, 97735
Site Address	Cwmbran NP11 5AY	Site area (ha.)	366

1 INTRODUCTION

1.1 Commissioning

RSK Environment Limited (RSK) was commissioned by Renewable Energy Systems Limited to carry out a Phase 2 Site Investigation - Coal Mining Risk Assessment of the land at Mynydd Maen Wind Farm , Cwmbran NP11 5AY. The project was carried out to an agreed brief as set out in RSK's proposal (reference T315198, dated 20 January 2023). This commission follows an earlier, desk-based assessment completed by RSK and presented in RSK report, Mynydd Maen Wind Farm Coal Mining Risk Assessment, document reference 315198 R01 (02), dated March 2023.

The work is subject to RSK's Service Constraints, which are included in **Appendix A**.

The site in question is being considered for development for commercial use as a wind farm.

1.2 Objectives

The objective of the work is to assess the risk of the presence of potential shallow historical coal workings, identified in the desk based study undertaken by RSK in early March 2023 (Coal Mining Risk Assessment Report ref 315198 R01), at proposed wind turbine locations T3, T7, T8 and T11.

1.3 Scope of works

The scope of this assessment has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. It is also compliant with relevant planning policy and guidance.

The scope of the intrusive investigation has been designed in line with the recommendations of BS5930:2015+A1:2020 Code of practice for ground investigations (BSI, 2020), which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. It has also been developed in general accordance with BS 10175: 2011 + A2 2017.

The scope of works for the assessment has included the following:

Intrusive investigation

- design and implementation of an intrusive investigation
- interpretation of ground conditions to develop an updated risk level from coal mining
- preparation of this interpretative report.

1.4 Existing reports

The following reports detailing previous works at the site were made available for review:

- RSK report, Mynydd Maen Wind Farm Coal Mining Risk Assessment 315198 R01 (02), March 2023 (NB this included review of an earlier report carried out by Geoinvestigate Limited "Coal Mining Risk Assessment (CMRA), Mynydd Maen Wind

Farm, Torfaen, between Newbridge and Cwmbran NP4 6US. 13 November 2020. Project ID4412, Ref. G20374")

Pertinent information from these reports has been summarised in Section 2.

1.5 Limitations

This report is subject to the RSK Service Constraints given in **Appendix A** and limitations that may be described through this document.

2 SITE DETAILS

2.1 Site location

Site location details are presented in Table 1 and a site location plan is provided on **Figure 1**.

Table 1 Site location details

Site name	Mynydd Maen Wind Farm
Full site address and post code	Mynydd Maen, Cwmbran NP11 5AY
National Grid reference (approximate centre of site)	ST 25754, 97735

2.2 Site description

The site is located between Newbridge and Cwmbran, south of the A472 highway. The site covers an area of approximately 366 hectares comprising rough open moorland and trackways, surrounded by a variety of woodlands and valleys. There are a number of significant watercourses running through the open moorland.

An existing telecoms mast is located roughly in the centre of site at 325660, 197923, and a number of underground services cross through the development area.

The site boundary and current layout are presented in **Figure 2**.

2.3 Surrounding land uses

The site is located on the moorland above Cwmbran. Immediate surrounding land uses are described in Table 2.

Table 2 Surrounding land uses

North	A472 road and the Tirpentwys nature reserve beyond
East	Pontypool and Cwmbran
South	Moorland, agricultural land, Cwmcarn forest
West	Fields, agricultural land, Cwmcarn forest, Newbridge and Abercarn

2.4 Development plans

The proposed layout of the site, at the time of preparing this report, is shown in **Appendix B**.

The proposed development is understood to be a wind farm comprised of up to 13 turbines, a substation and associated trackways.

2.5 Summary of previous investigations

A summary of pertinent information from previous investigations is included in Table 3.

Table 3 Summary of previous investigation reports

Report Details	RSK, 315198 R01 (02), Coal Mining Risk Assessment: Mynydd Maen Wind Farm, March 2023.
Site coverage	Entire site.
Summary scope of works	Desk based assessment of available coal mining records (including Geoinvestigate CMRA report from November 2020).
Key findings	There are underground workings in a number of coal and one ironstone seams beneath the site between 171m and 627m depth. There are 4 coal seams at potentially shallow depth beneath parts of the site including the Tillery Rider No.2, Mynyddislwyn Lower Leaf, Cefn Glas and Brithdir coal seam. Four proposed turbines (T3, T7, T8 and T11) are located in the vicinity of the Mynyddislwyn coal seam. Although records indicate that unrecorded shallow workings (<30m) are not probable directly beneath site, the Coal Authority have indicated on their interactive viewer that parts of site are considered development high risk based on coal seam outcrops and have the potential to have been worked. A number of shafts are recorded around the perimeter of site, the nearest being over 300m to the north east of proposed turbine 1. Given that no entries are present in the vicinity of development, no further consideration of these features is required. There are a number of geological faults recorded beneath or close to the site. They are generally of limited extent and not thought to have resulted in significant structural movement. Given the significant depth of workings, the lack of any known potential direct migration pathway and the proposed form of development, the risk posed by mine gases is considered negligible. The potential presence of shallow workings in the Mynyddislwyn coal seam at the four proposed turbine locations is the only identified risk that requires further assessment.

3 SITE INVESTIGATION STRATEGY & METHODOLOGY

3.1 Introduction

RSK carried out intrusive investigation works between 6 and 14 March 2023.

3.2 Objectives

The specific objective of the investigation was to establish the ground conditions and assess the identified risk from coal shallow coal workings at the four proposed turbine locations (T3, T7, T8 and T11).

3.3 Selection of investigation methods

The techniques adopted for the investigation were chosen with consideration of the objectives and site constraints, which are described below.

Mechanically excavated trial pits were chosen to allow for rapid assessment of shallow ground conditions where coal was suspected to occur near surface in the vicinity of certain turbine locations. Rotary open hole drilling was conducted following the initial trial pitting exercise in search for evidence of historical shallow mine workings in coal seams beneath the site (such as coal arisings, broken ground or voids), drilling was completed to a maximum depth of 20m bgl.

Prior to conducting intrusive works, utility service plans were obtained and buried service clearance undertaken in line with RSK's health and safety procedures. Copies of statutory service records obtained by RSK as part of the agreed scope of works are contained in **Appendix C**.

3.4 Investigation strategy

The ground investigation was carried out using intrusive ground investigation techniques in general accordance with the recommendations of BS5930:2015+A1:2020, which maintains compliance with BS EN 1997-1 and 1997-2 and their related standards. Whilst every attempt was made to record full details of the strata encountered in the boreholes, techniques of hole formation will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

The investigation strategy involved targeted boreholes and trial pits following the results of a desk based report undertaken by RSK in March 2023. The report identified that four proposed turbines (T3, T7, T8 and T11) are located in the vicinity of the Mynyddislwyn coal seam and could potentially be at risk from coal mining related hazards.

The constraints to the investigation were as follows:

- overhead and underground services
- boggy terrain
- large distances between exploratory locations

- access issues during extreme weather conditions (snow and strong winds)

Details of the investigation locations and rationale are presented in Table 4. Machine excavated trial pits were dug at each of the four proposed turbine locations (T3, T7, T8 and T11) to a maximum depth of 2.50m bgl before being backfilled with arisings. Four rotary open holes were drilled at each of the four turbine locations to a maximum depth of 20m bgl before being backfilled with bentonite. An exploratory hole location plan is shown on **Figure 3.**

Table 4 Exploratory hole and monitoring well location rationale

Investigation type	Number	Location – investigation method	Rationale
Trial-pits excavated by mechanical excavator	4	T3 - TP T7 - TP T8 - TP T11 - TP	To investigate shallow ground conditions beneath proposed turbine locations T3, T7, T8 and T11.
Boreholes by rotary open hole	4	T3 - RO T7 - RO T8 - RO T11 - RO	To prove or disprove the presence of shallow mine workings beneath proposed turbine locations T3, T7, T8 and T11.
T3 etc denotes turbine location and reference number, TP denotes mechanically excavated trial pit, RO denotes rotary open hole borehole			

3.4.1 Implementation of investigation works

The site investigation works were carried out in general accordance with the UK Specification for Ground Investigation (UKSGI), third edition (AGS, 2022).

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS5930:2015+A1:2020 (which incorporates the requirements of BS EN ISO 14688-1, 14688-2 and 14689-1).

4 SITE INVESTIGATION FACTUAL FINDINGS

The results of the intrusive investigation undertaken are detailed below.

4.1 Ground conditions encountered

The descriptions of the strata encountered, notes regarding visual or olfactory evidence of contamination and field observations of soil and groundwater are included on the exploratory hole records presented in **Appendix F**.

At all trial pit and borehole locations the same sequence of lithologies were recorded which varied slightly in thickness. The exploratory holes revealed that the site is underlain by a layer of peat over varying amounts of clay, sands and gravels with sandstone bedrock encountered at relatively shallow depths.

For the purpose of discussion, the ground conditions encountered during the fieldworks are summarised in Table 5 with the strata discussed in subsequent subsections.

Table 5 General succession of strata encountered

Stratum	Exploratory holes encountered	Depth to top of stratum m bgl	Proven thickness (m)
Peat	All four trial pits All four boreholes	0.0	0.20 - 0.60
Clay/ sand/ gravel	All four trial pits All four boreholes	0.20 – 0.60	0.65 - 1.80
Sandstone bedrock (believed to be the Hughes member of the Pennant Sandstone Formation)	All four trial pits All four boreholes	1.00 - 2.10	18.60 - 19.00

4.1.1 Peat

Peat was encountered at all locations directly beneath the grass or moss at surface up to a depth of between 0.20m and 0.60m bgl. The peat was generally black in colour, amorphous, sandy or clayey, plastic or spongey and often contained rootlets.

4.1.2 Variable cohesive and granular unit

This stratum was encountered at all locations at a depth of between 0.20m and 0.6m below ground level and varied between 0.65m and 1.8m in thickness. Cohesive layers were generally orange brown slightly sandy gravelly clay. Granular layers were comprised of primarily sand or gravel with varying amounts of secondary components including clay, silt, sand or gravel. All gravel observed was comprised of sandstone.

4.1.3 Hughes Member of the Pennant Sandstone Formation

Bedrock (believed to represent the Hughes member of the Pennant Sandstone Formation) was encountered at all locations at a depth of between 1.00m and 2.10m below ground level and comprised of grey fine to coarse sandstone. The layer of sandstone had a minimum thickness of 18.6m.

4.2 Groundwater and surface water

4.2.1 Groundwater encountered during intrusive works

Groundwater was not encountered during the investigation works. A seepage of perched groundwater was encountered at the base of the peat in borehole T3 (RO) at 0.60 mbgl.

4.3 Coal Mining Hazards

Ground conditions which may be evidence of possible shallow underground coal mining, such as; intact coal seams; voids; broken or highly fractured ground; soft or backfilled materials within bedrock; or rapid drilling progress or unexpected loss of drilling flush, were **not** encountered in any of the exploratory boreholes.

In summary the boreholes recorded intact sandstone bedrock throughout and there was no evidence of any underground coal mining to the full depths of drilling.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Coal Mining Risk Assessment

The investigation has **not** encountered **any** evidence of shallow coal seams or unrecorded shallow workings beneath site up to a maximum depth of 20m bgl in all exploratory locations.

Adequate minimum rock cover (18m to 19m) has been proved in turbine locations T3, T7, T8 and T11; should as a worst case, the seam be present immediately below the base of the borehole.

Based on the above findings, there is a **low or negligible risk** from coal mining related hazards at the assessment site and will have little/no effect on the proposed development.

5.2 Recommendations

No further investigation or remediation with regards to coal mining hazards is required at the assessment site.

REFERENCES

Previous SI reports and other site related information

RSK, 315198 R01 (02), Coal Mining Risk Assessment: Mynydd Maen Wind Farm, March 2023.

OR

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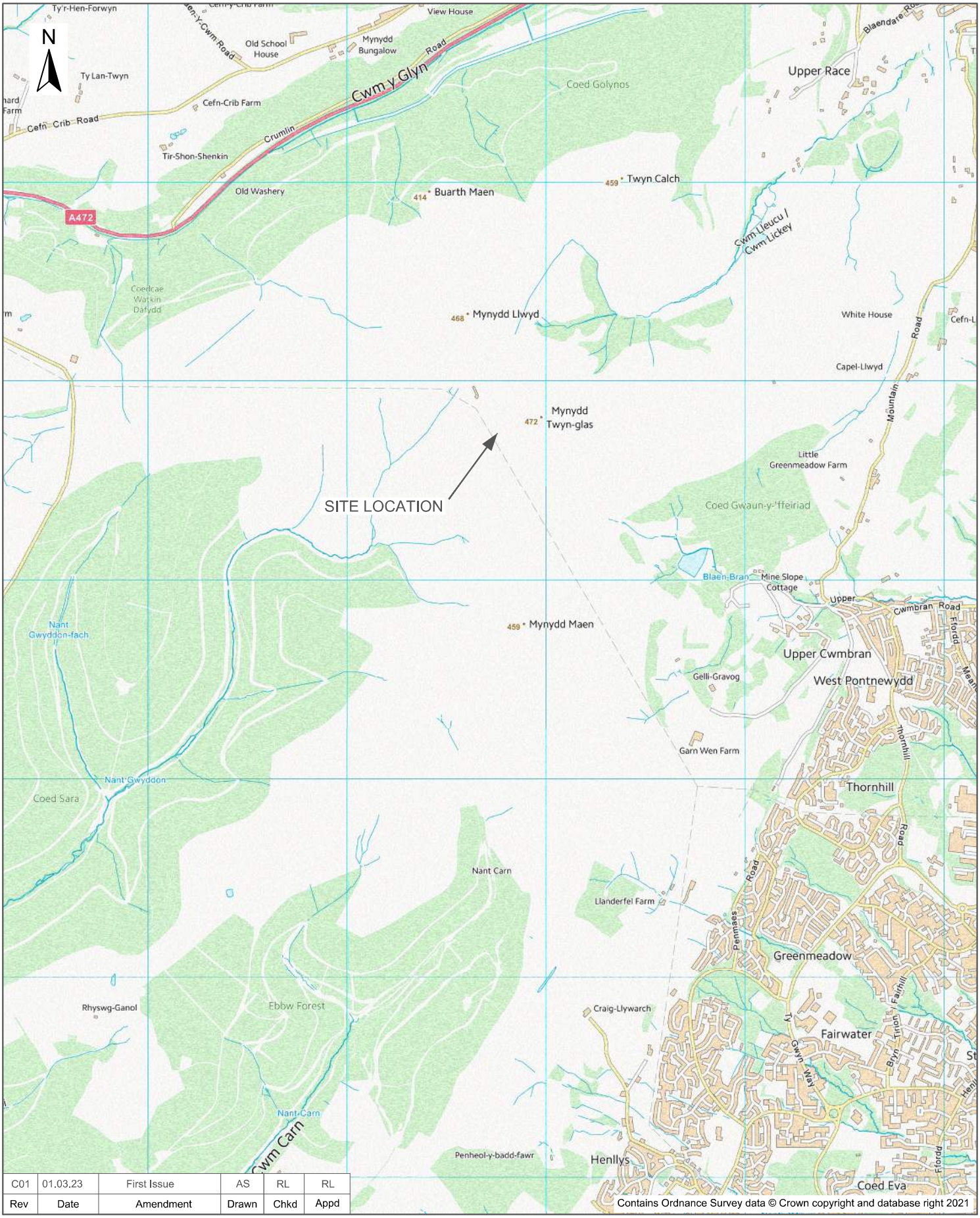
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FIGURES

FIGURE 1 SITE LOCATION PLAN



Rev	Date	Amendment	Drawn	Chkd	Appd
C01	01.03.23	First Issue	AS	RL	RL

RSK GEOSCIENCES
The Old School
Stillhouse Lane
Bristol
BS3 4EB
Tel: +44(0)1414 180471
Email: info@rsk.co.uk
Web: www.rsk.co.uk

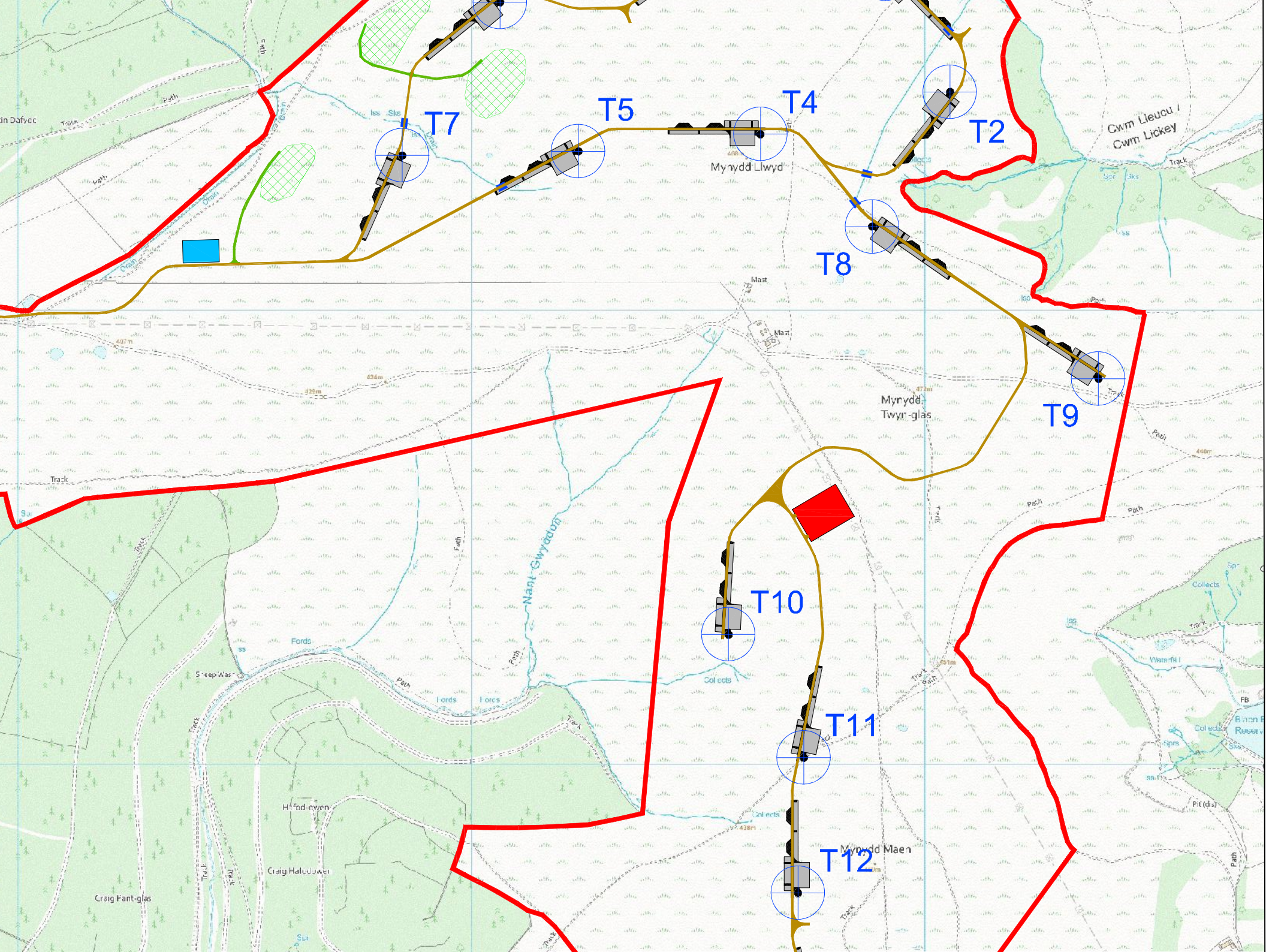
Client: Renewable Energy Systems Limited

Project Name: Mynydd Maen Wind Farm

Description: Site Location Plan

Dimension	Size	Scale	Geolocation	Project ID	Drawing no.	Rev	File name
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FIGURE 2 SITE LAYOUT PLAN



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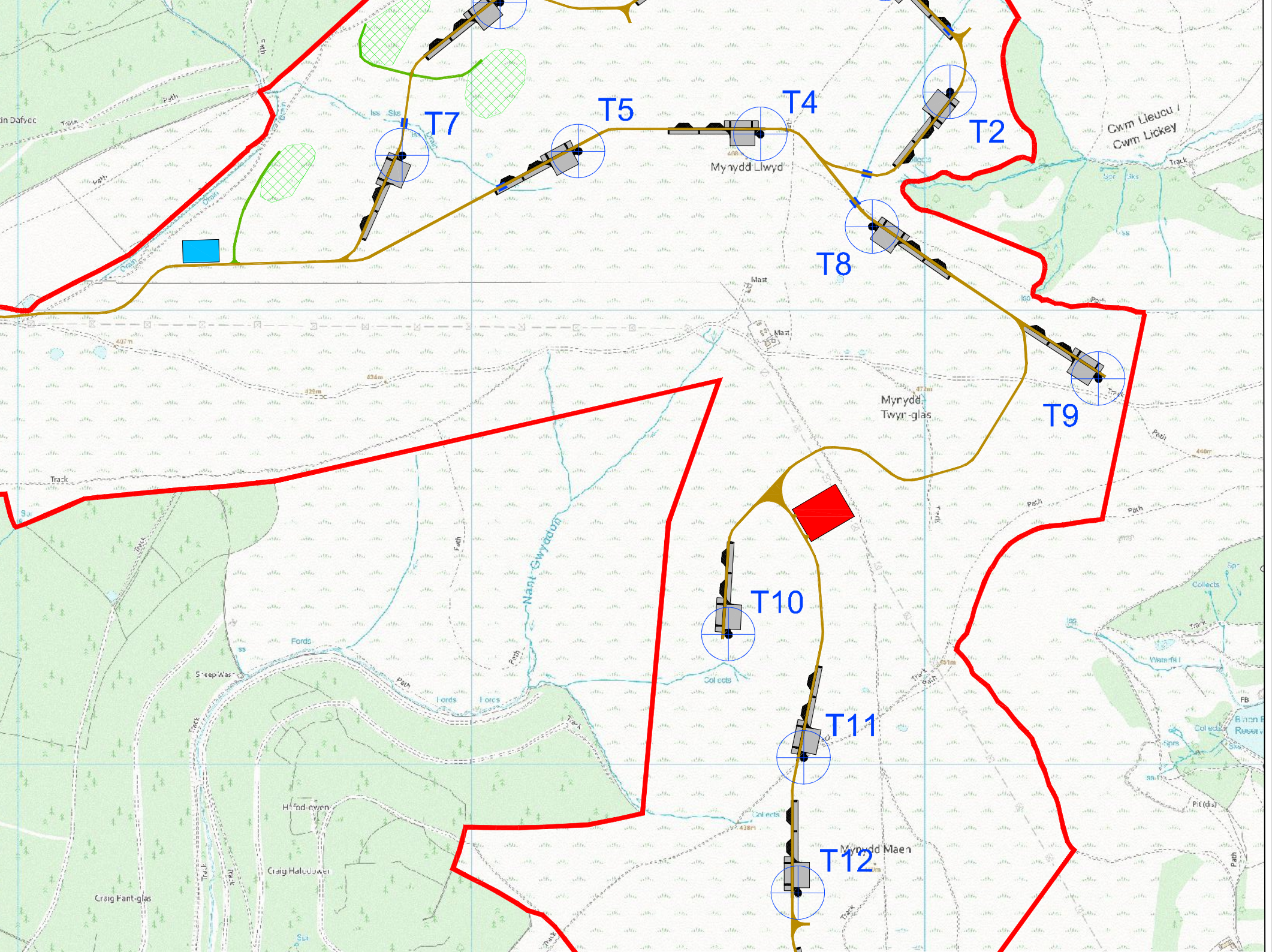

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T2
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T9
T10
T11
T12
Mynydd Llwyd
Cwm Lleucu / Cwm Lickey
Mynydd Twyn-glas
Nant Gwydyn
Mynydd Maen
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FIGURE 3 EXPLORATORY HOLE LOCATION PLAN



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APPENDICES

APPENDIX A
SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Renewable Energy Systems Limited (the "Client") in accordance with the terms of a contract [RSK Environment Standard Terms and Conditions] between RSK and the Client. The Services were performed by RSK with the reasonable skill and care ordinarily exercised by an environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the Client.

2. Other than that, expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.

3. Unless otherwise agreed in writing, the Services were performed by RSK exclusively for the purposes of the Client. RSK is not aware of any interest of or reliance by any party other than the Client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**

4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK 's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date of this report, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.

5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the Client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.

6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the Client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off site of asbestos, invasive plants, electromagnetic fields, lead paint, heavy metals, radon gas, persistent, bioaccumulative or toxic chemicals (including PFAS and related compounds) or other radioactive or hazardous materials, unless specifically identified in the Services.

7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a visual inspection of the site together with RSK's interpretation of information, including documentation, obtained from third parties and from the Client on the history and usage of the site,

unless specifically identified in the Services or accreditation system (such as UKAS ISO 17020:2012 clause 7.1.6):

a. The Services were based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely.

b. The Services were limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the visual inspection.

c. The Services did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services.

RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the Client and RSK.

8. The intrusive environmental site investigation aspects of the Services are a limited sampling of the site at pre-determined locations based on the known historic / operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the properties of the materials adjacent and local conditions, together with the position of any current structures and underground utilities and facilities, and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters (as stipulated in the scope between the client and RSK, based on an understanding of the available operational and historical information) and it should not be inferred that other chemical species are not present.

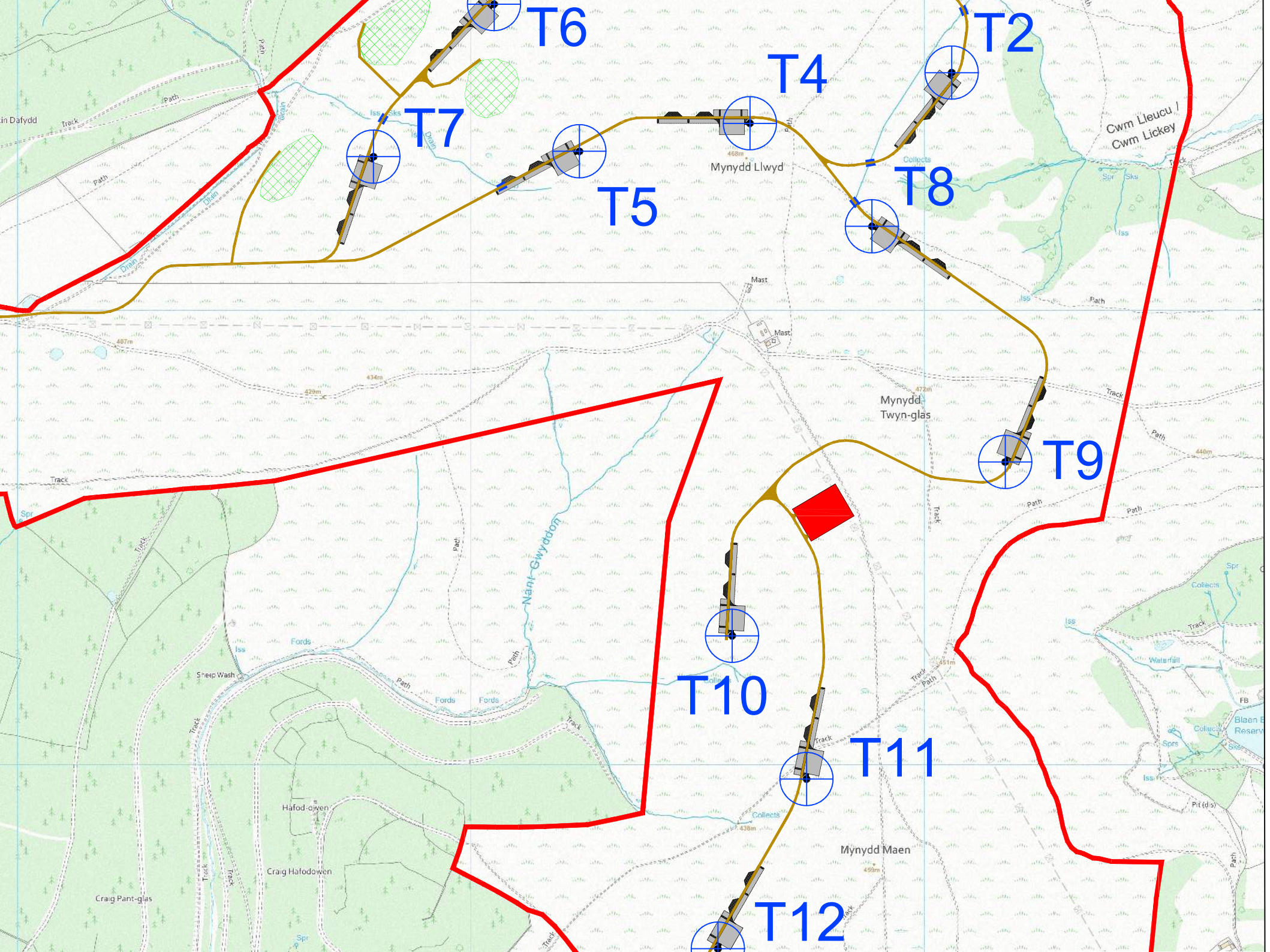
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site. Features (intrusive and sample locations etc) annotated on site plans are not drawn to scale but are centred over the approximate location. Such features should not be used for setting out and should be considered indicative only.

10. The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and in the laboratory. However, there may be conditions pertaining to the site that have not been disclosed by the investigation and therefore could not be taken into account. In particular, it should be noted that there may be areas of made ground not detected due to the limited nature of the investigation or the thickness and quality of made ground across the site may be variable. In addition, groundwater levels and ground gas concentrations and flows, may vary from those reported due to seasonal, or other, effects and the limitations stated in the data should be recognised.

11. Asbestos is often observed to be present in soils in discrete areas. Whilst asbestos-containing materials may have been locally encountered during the fieldworks or supporting laboratory analysis, the history of brownfield and demolition sites indicates that asbestos fibres may be present more widely in soils and aggregates, which could be encountered during more extensive ground works.

12. Unless stated otherwise, only preliminary geotechnical recommendations are presented in this report and these should be verified in a Geotechnical Design Report, once proposed construction and structural design proposals are confirmed.

APPENDIX B
DEVELOPMENT DRAWINGS



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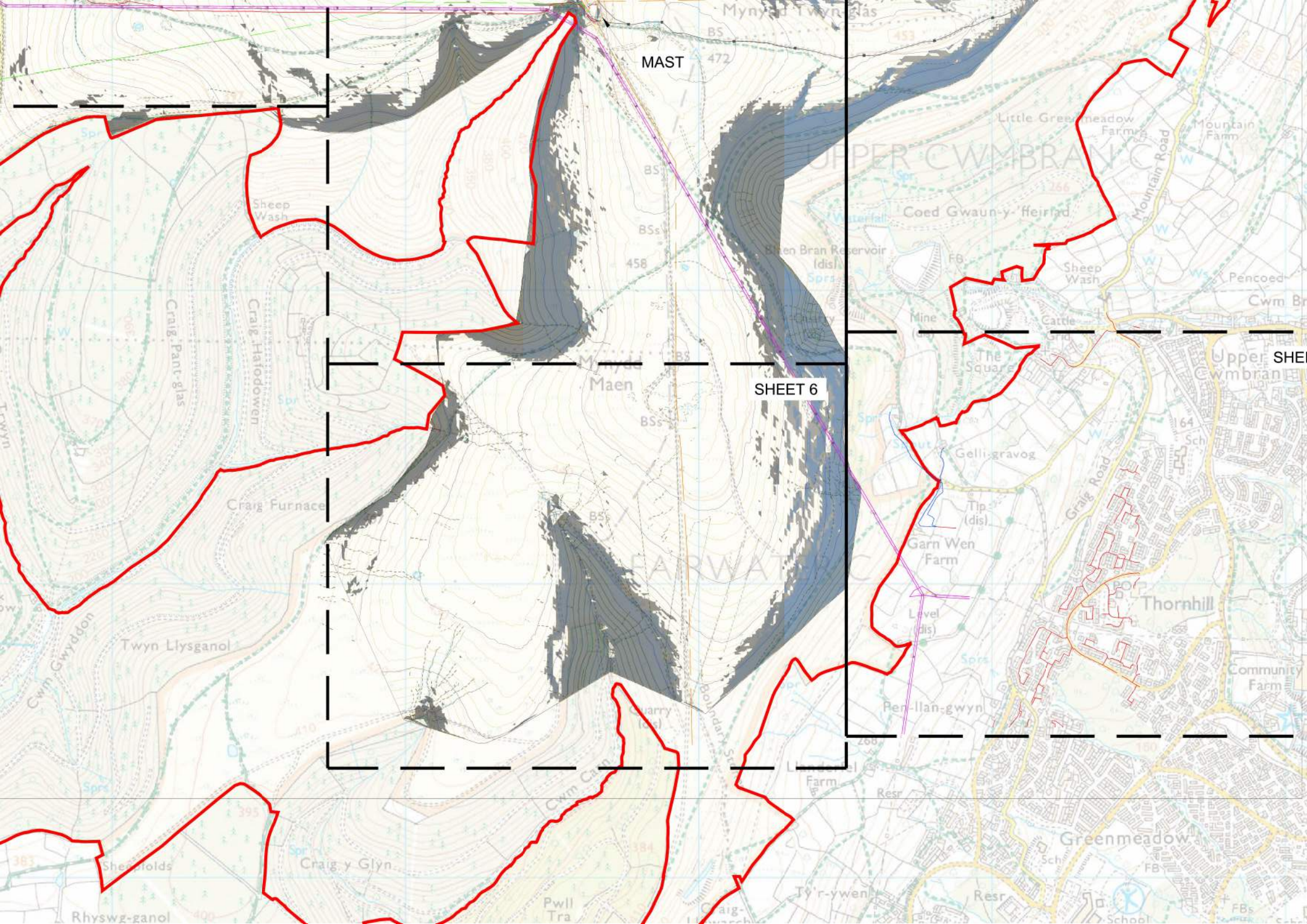
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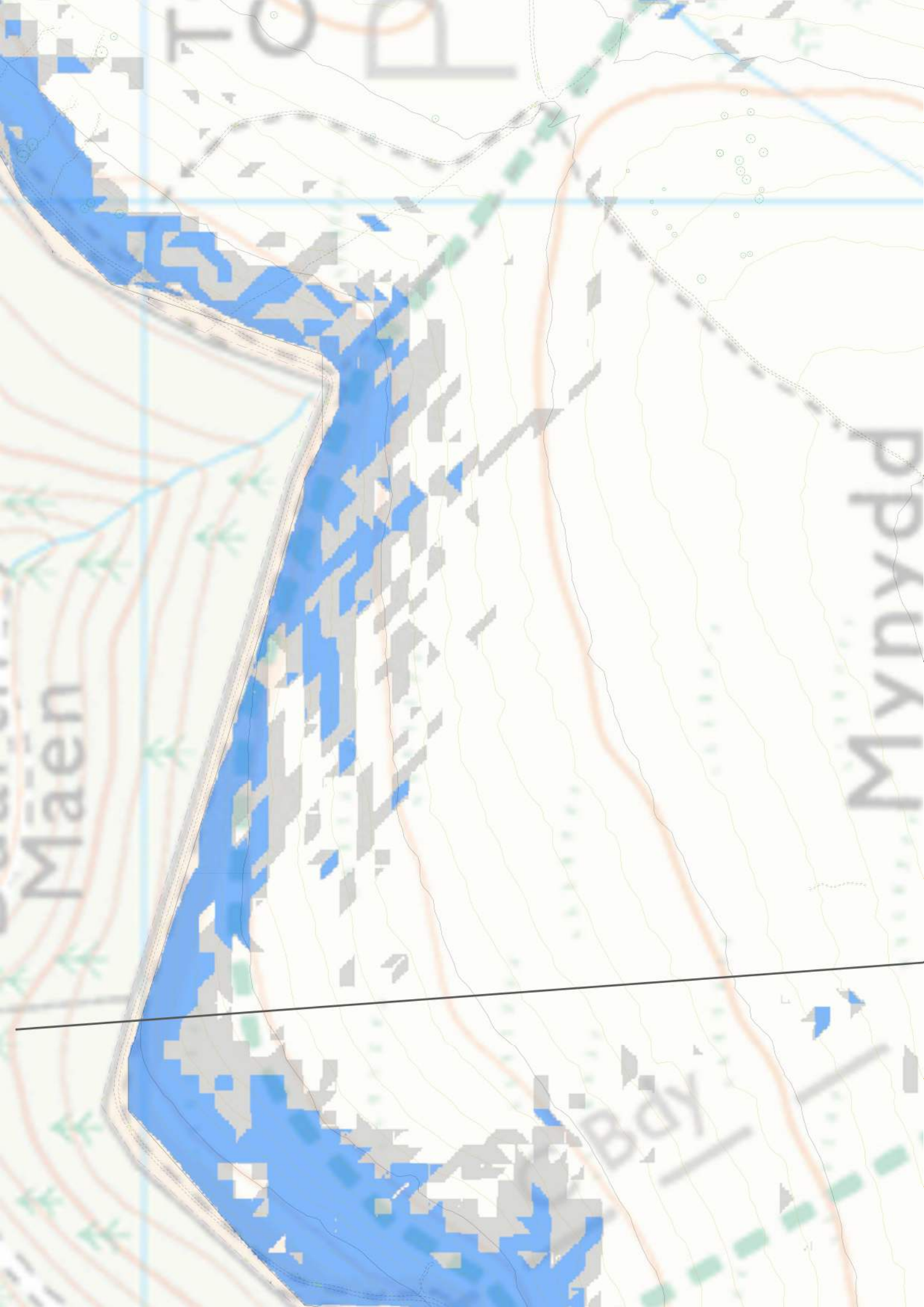
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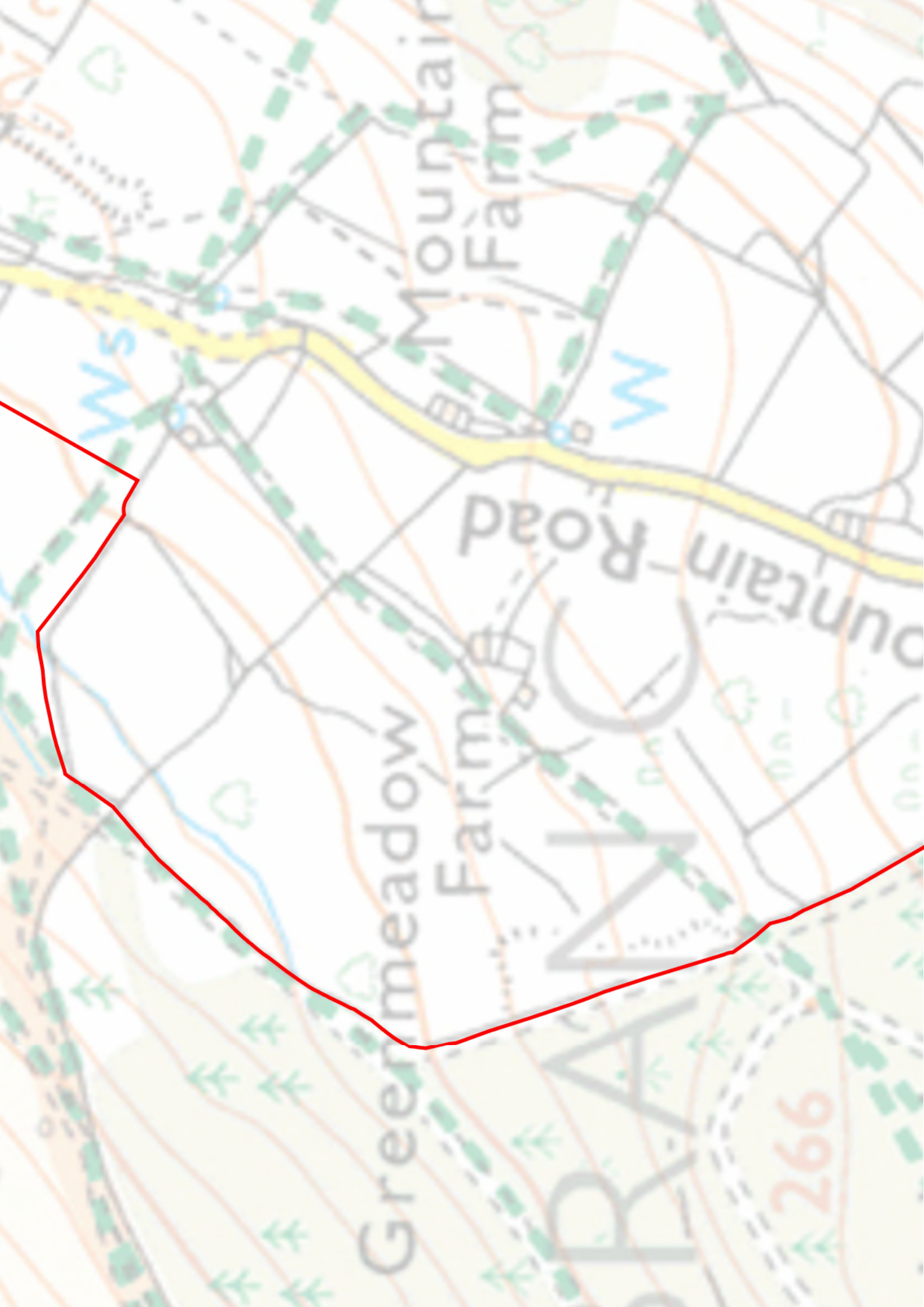
APPENDIX C
UTILITY SERVICE PLANS

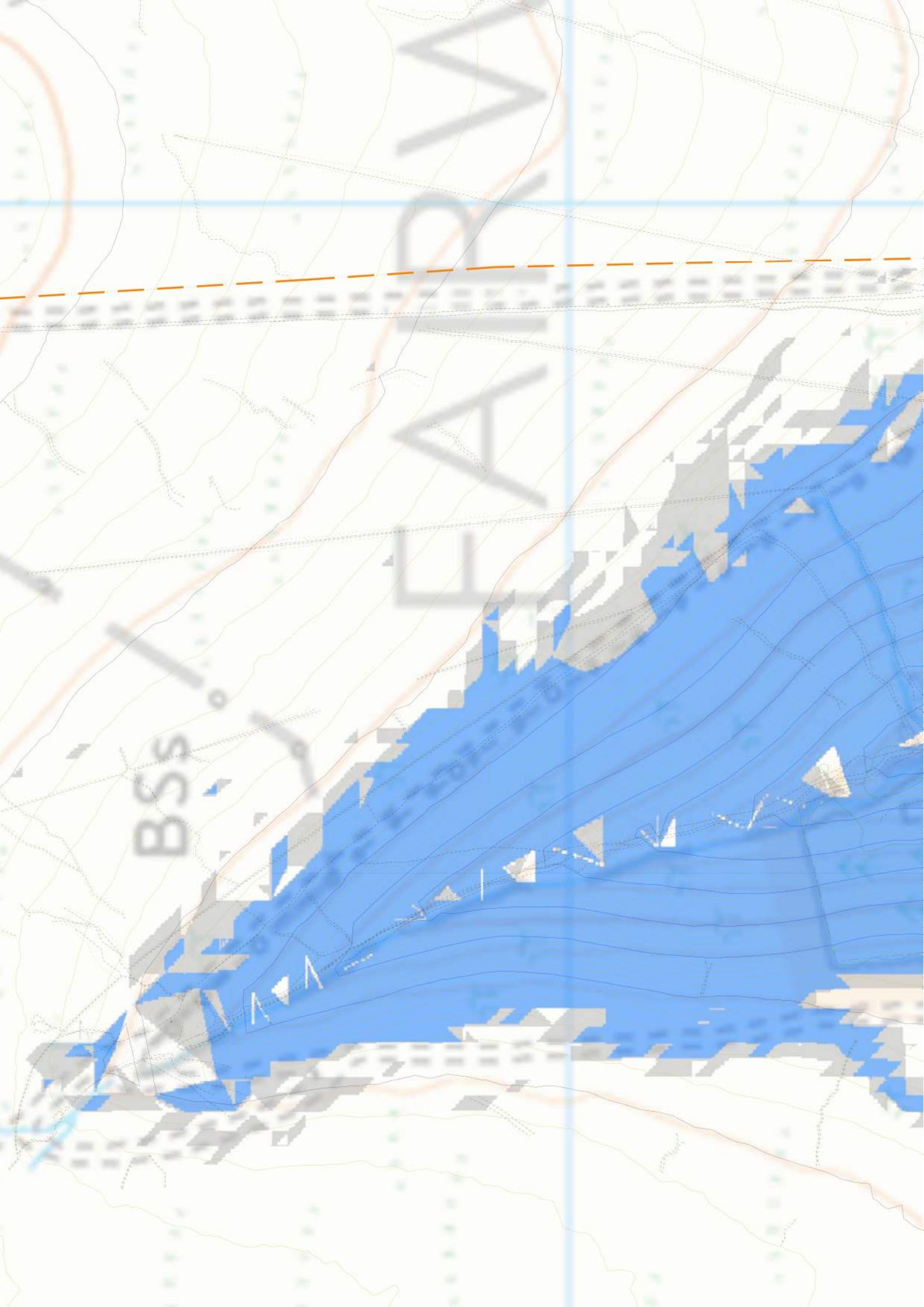

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Craig Furnace
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Rhyswg-ganol
Maen
Craig-Pant-glas
Craig Halodowen
Cwm Gwyddon
Sheep Wash
Coed Gwaun-y-ffeirfad
Garn Wen Farm
Gelli-gravog
Thornhill
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Community Farm
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Ty'r-ywen
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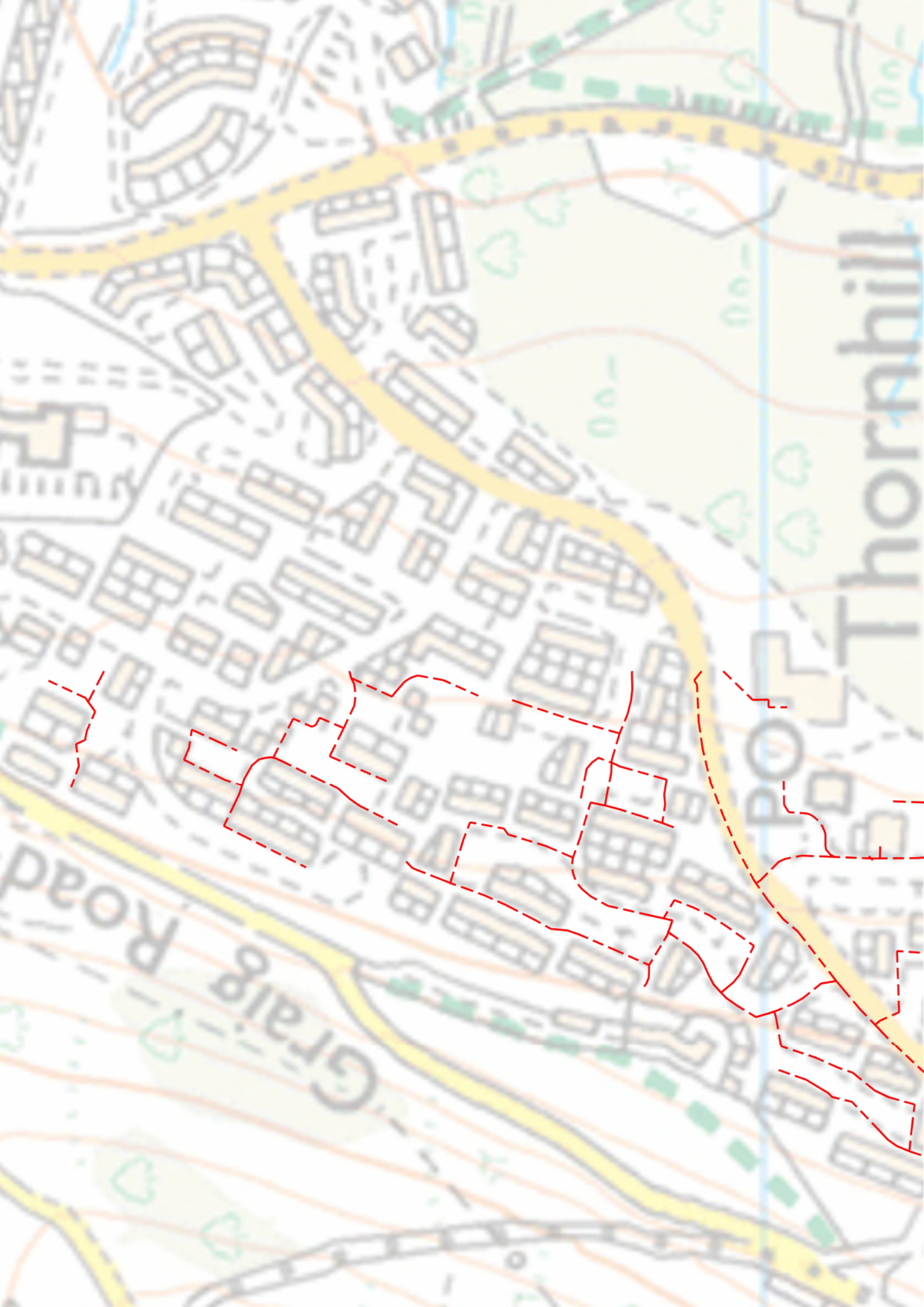

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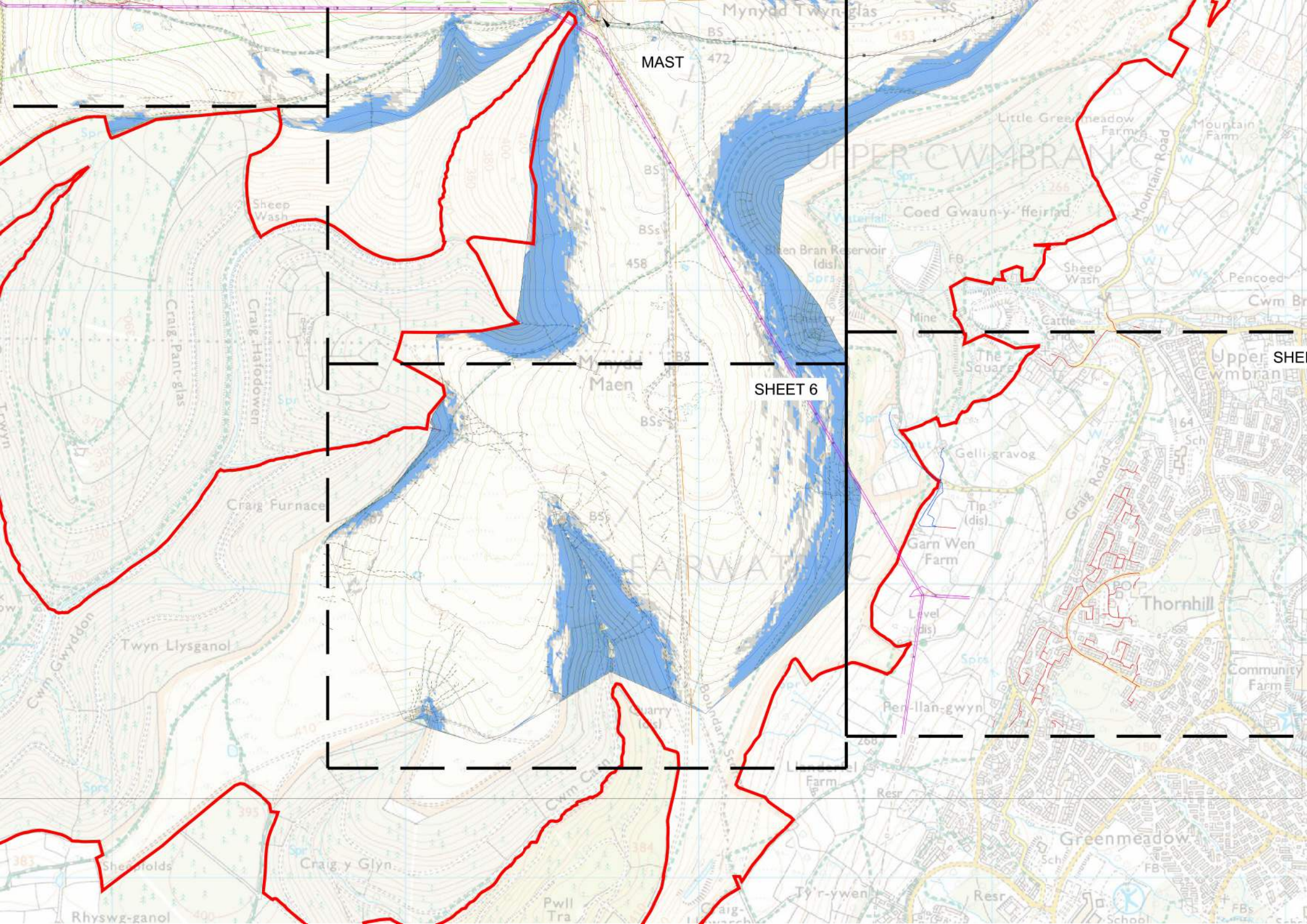

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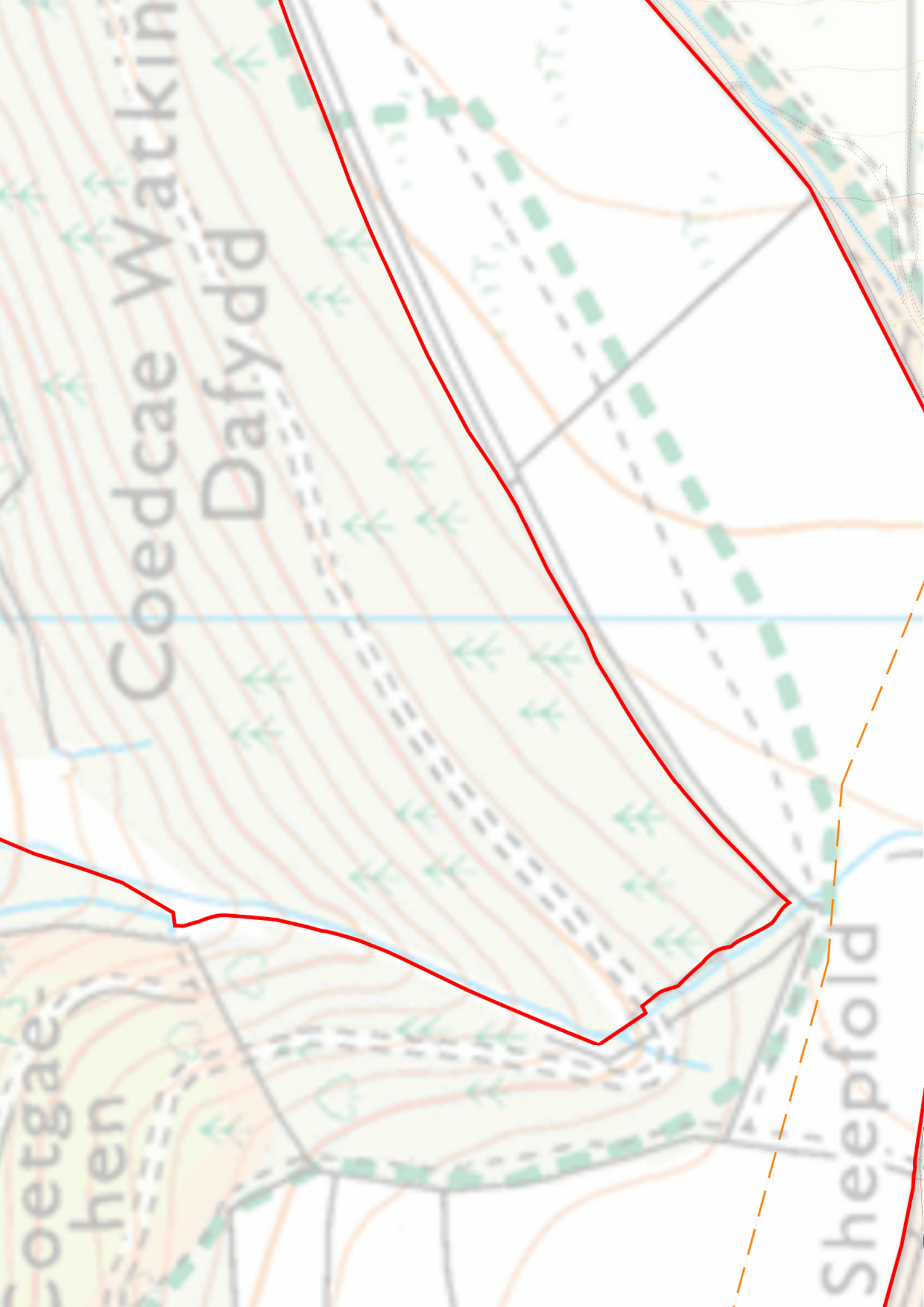

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450
420

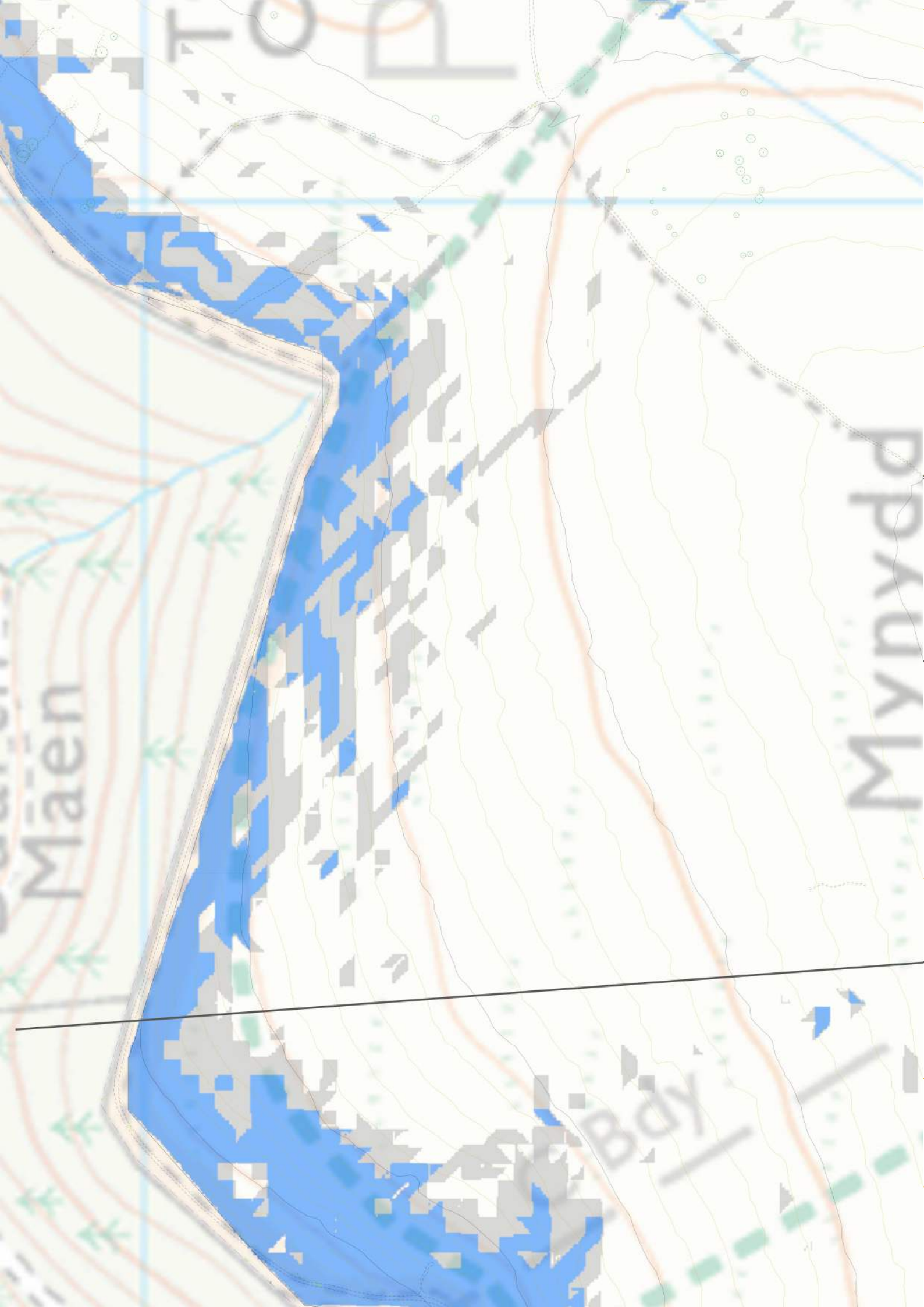

Mountain Farm
Greenmeadow Farm
Road



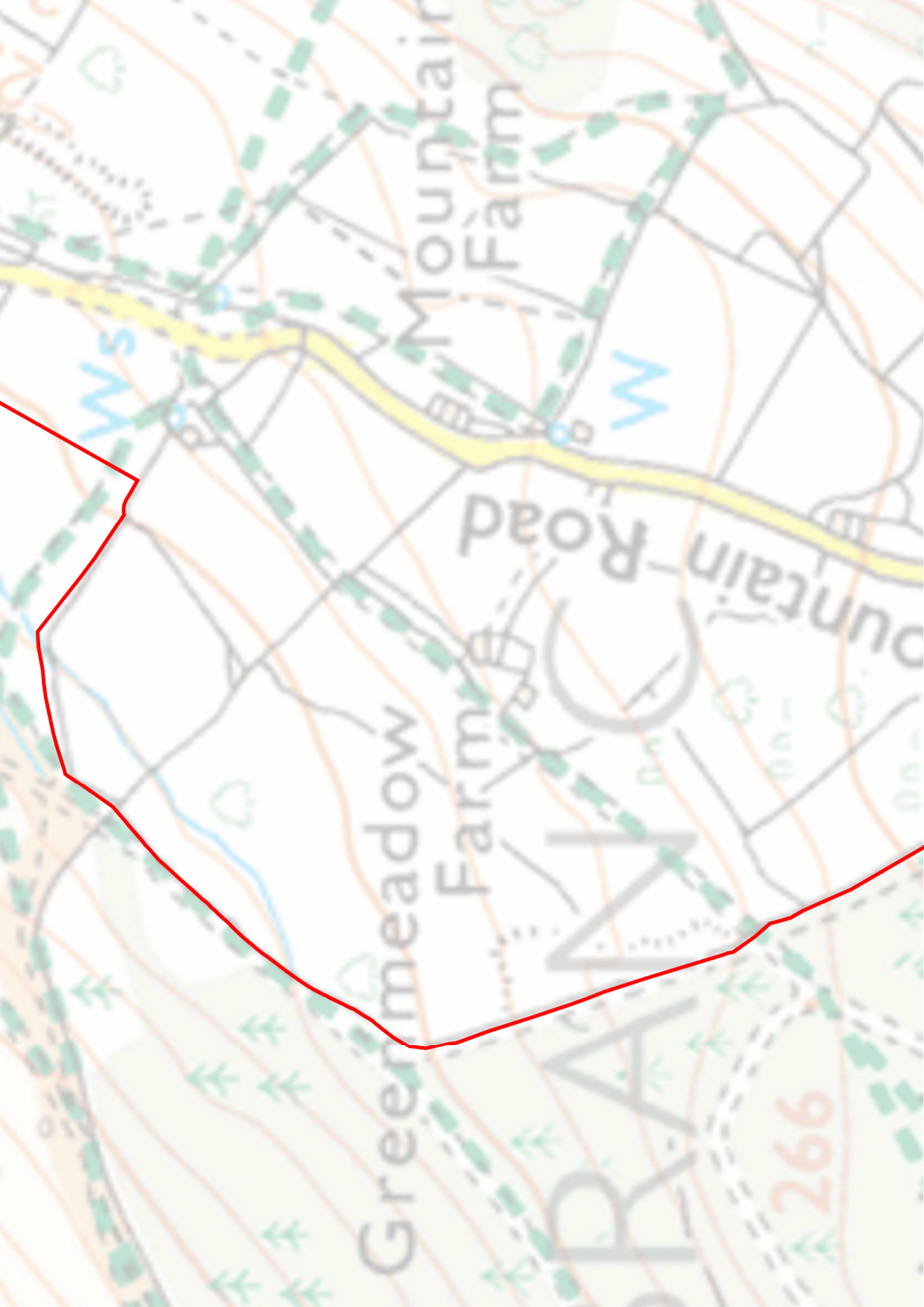

Thornhill
Craig Road

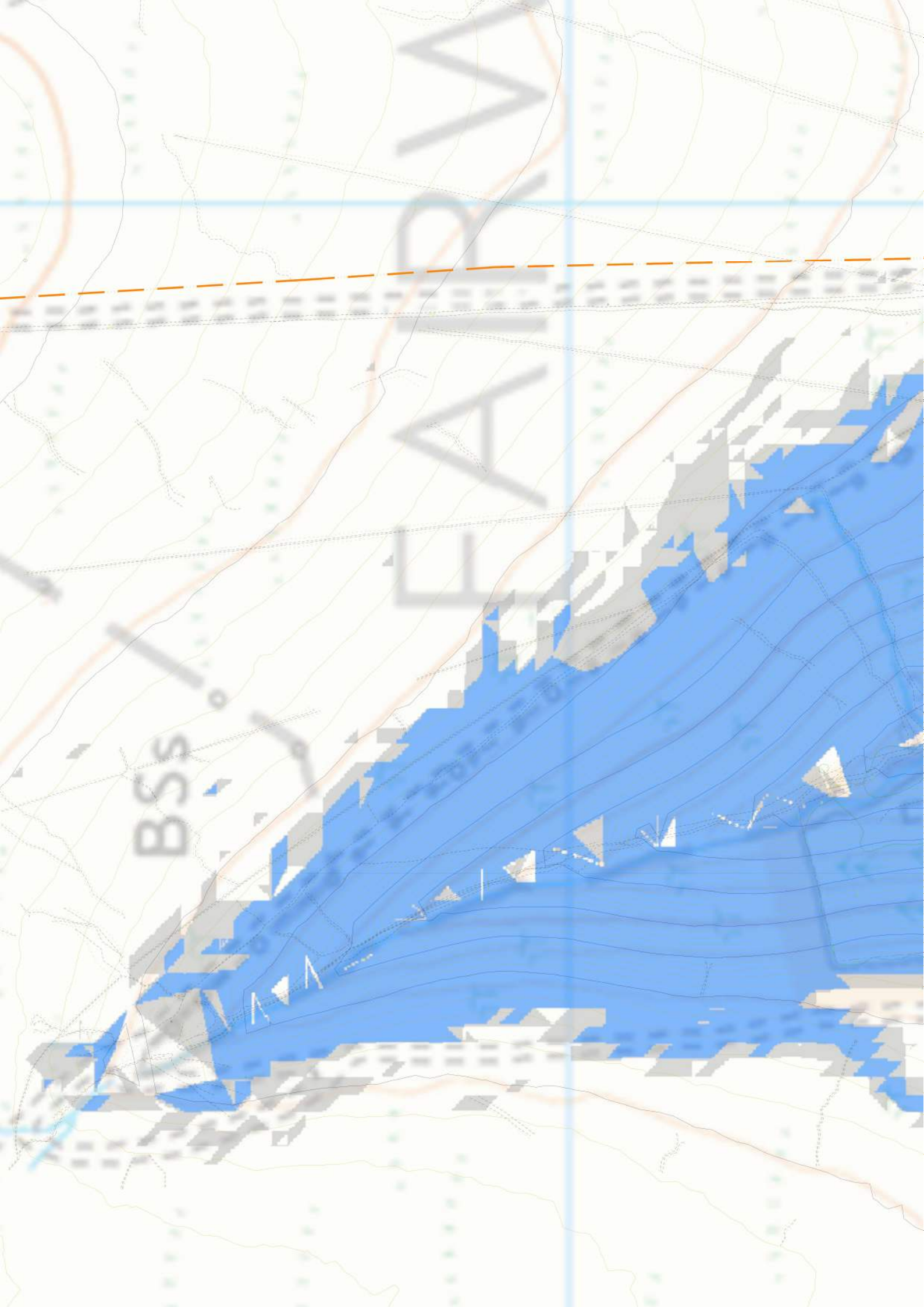

MAST
SHEET 6
Mynydd Twyn-glas
Mynydd Maen
Craig Pant-glas
Craig Hafodowen
Craig Furnace
Twyn Llysganol
Cwm Gwyddon
Craig y Glyn
Rhyswg-ganol
Sheepfolds
Sheep Wash
Coed Gwaun-y-ffeirfad
Upper Cwmbran
Thornhill
Greenmeadow
Community Farm
Garn Wen Farm
Gelli-gravog
Pen-llan-gwyn
Ty'r-ywen
Pwll Tra
Mountain Road
Craig Road
Cwm Br
SHE

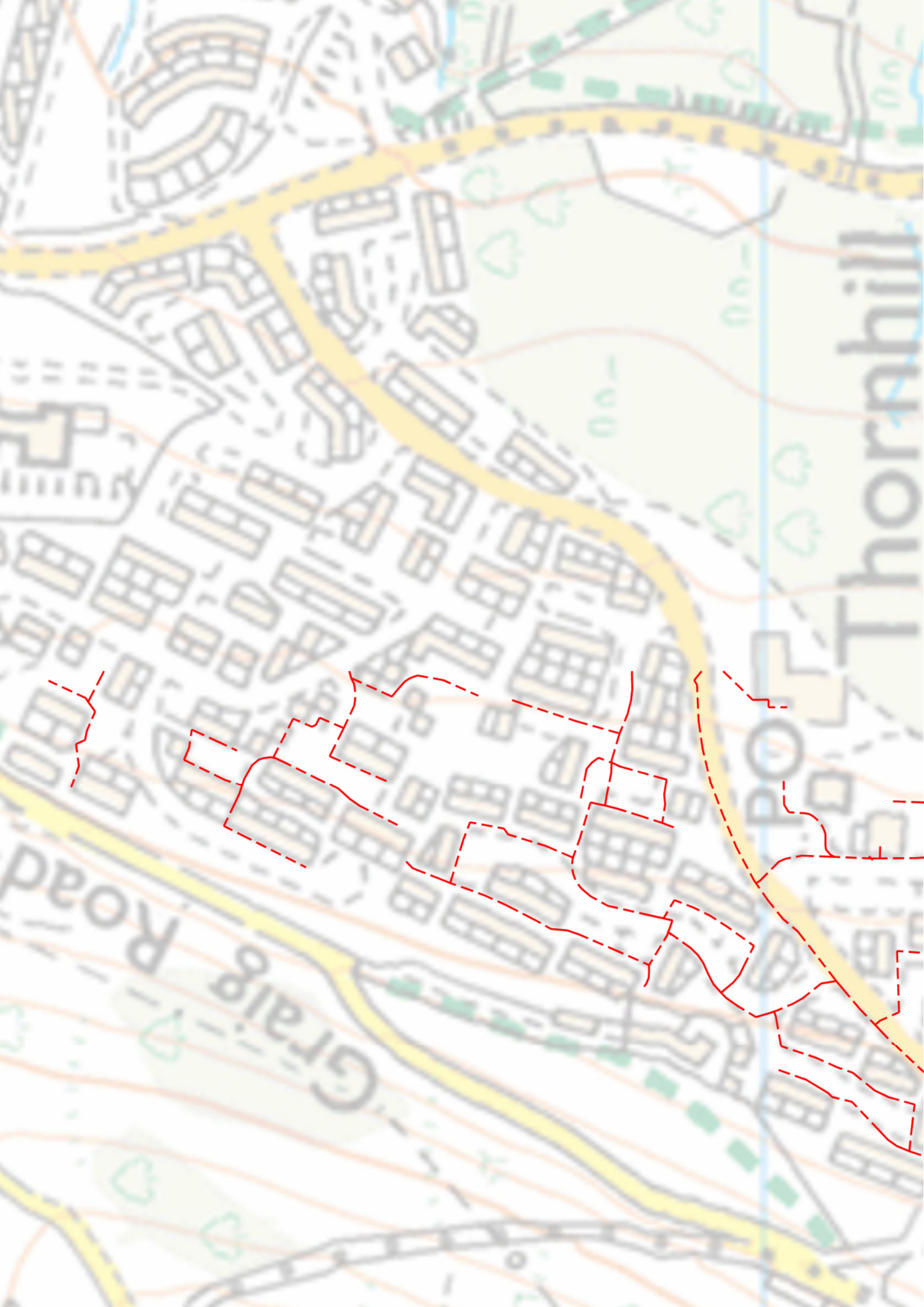

Coedcae Watkin
Dafydd
Sheepfold




Surf 72 ADS5
Surf 72 ADS5
Surf 72 ADS5
Surf 72 ADS5
460
450
420


Mountain Farm
Greenmeadow Farm
Mountain Road



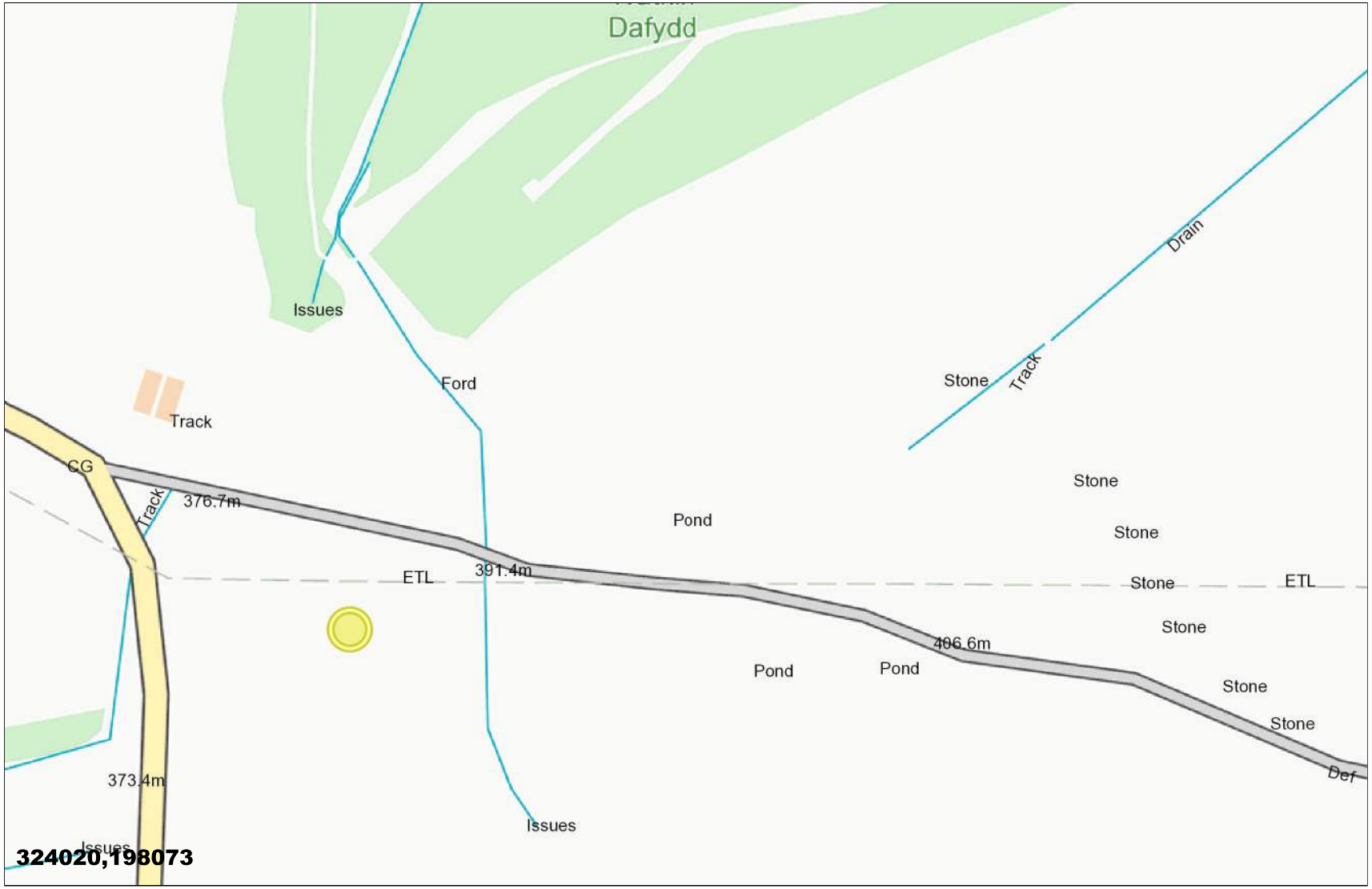

Thornhill
Craig Road

Dŵr Cymru
Welsh Water

NOC/KHBPR961 Water & Sewers

03/09/2021

Scale: 1: 4500



LEGEND

Clean Water

- Sluice Val
- Air Val, SINGLE
- Tap
- Pressure Reducing Valve
- Meter
- BULK Meter
- FH
- Cap
- Existing Main
- NON COMPANY

Sewerage External

- Foul
- Surface Water
- Combined
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- Special Purpose
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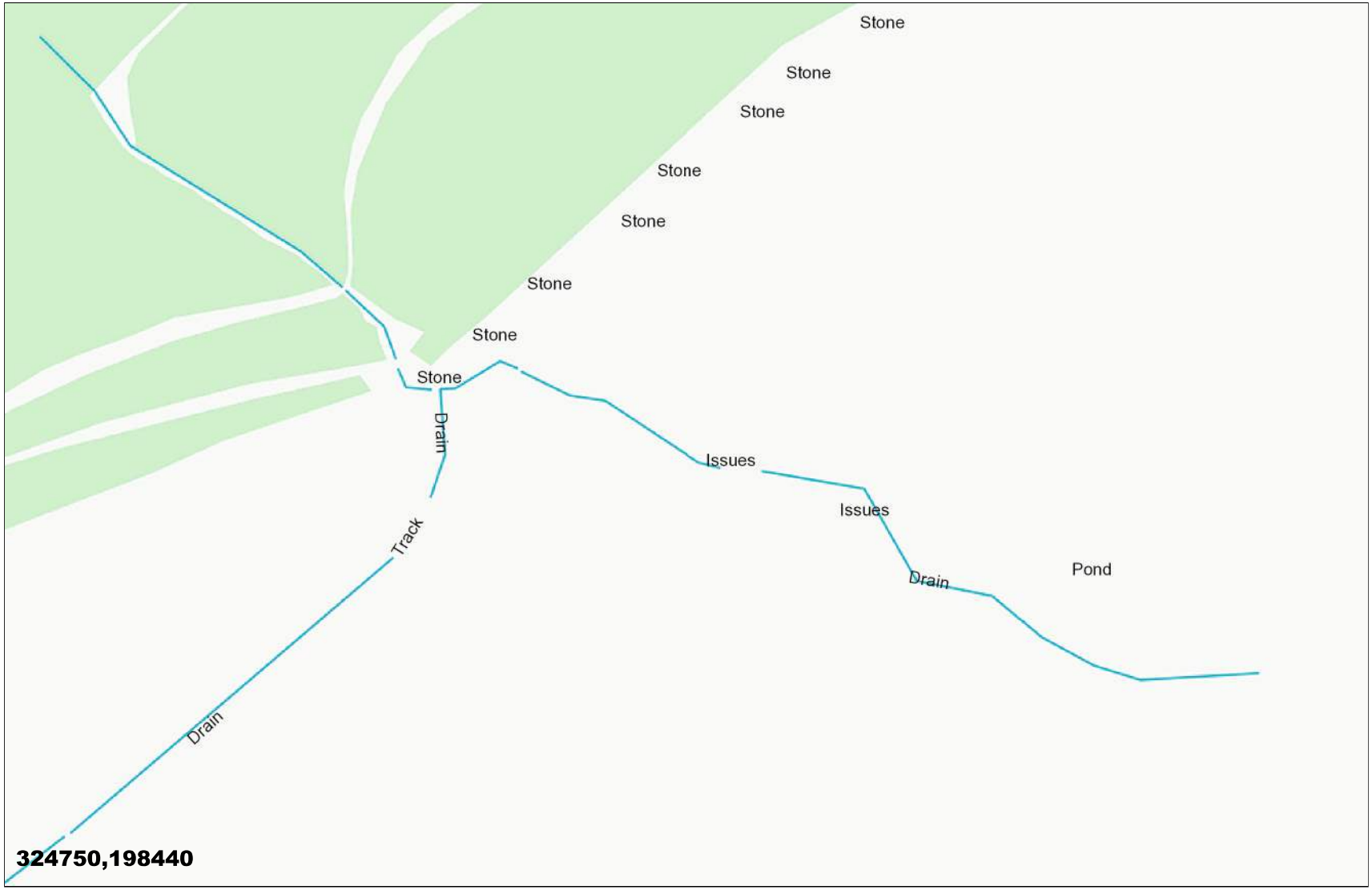
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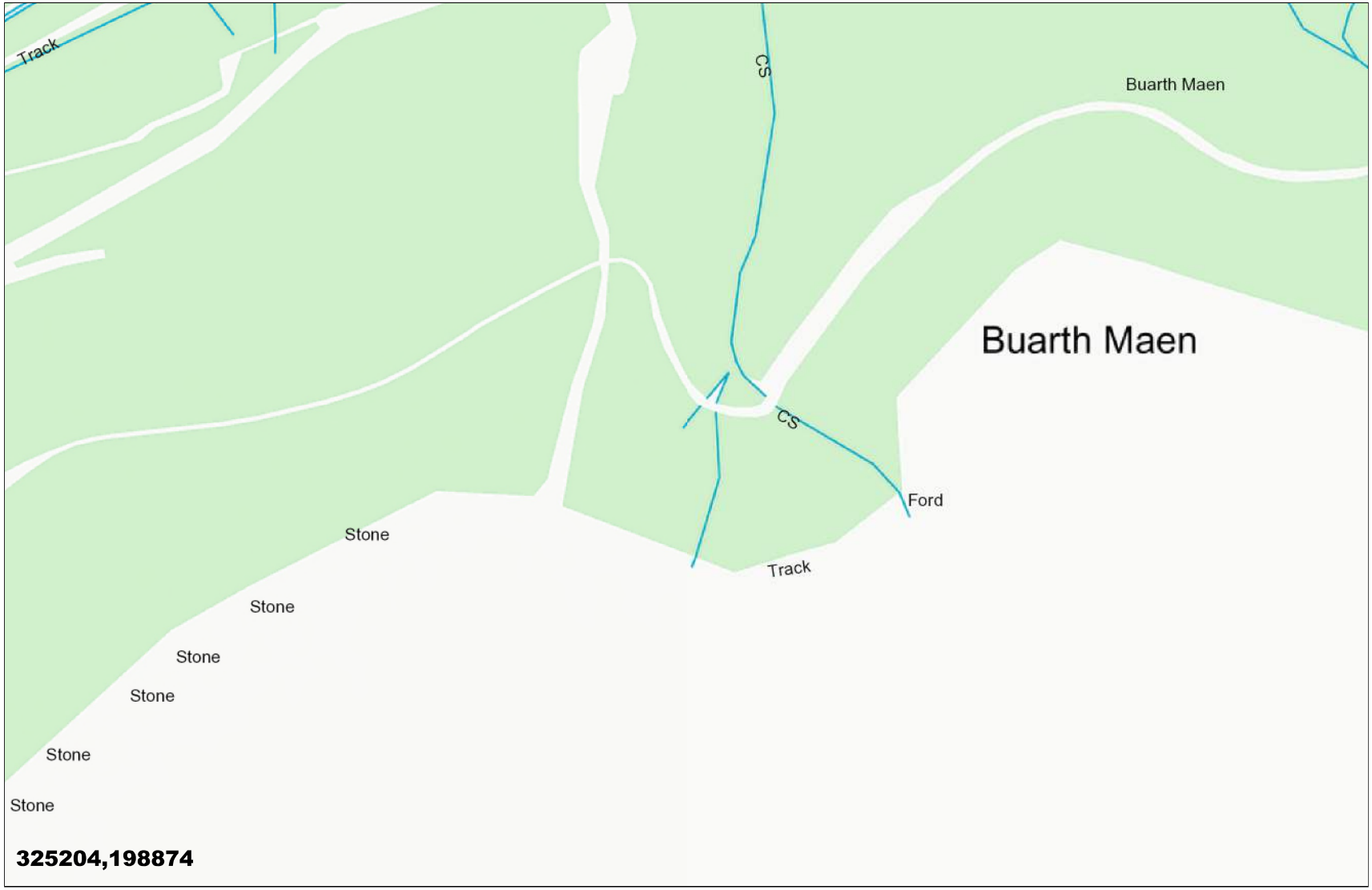
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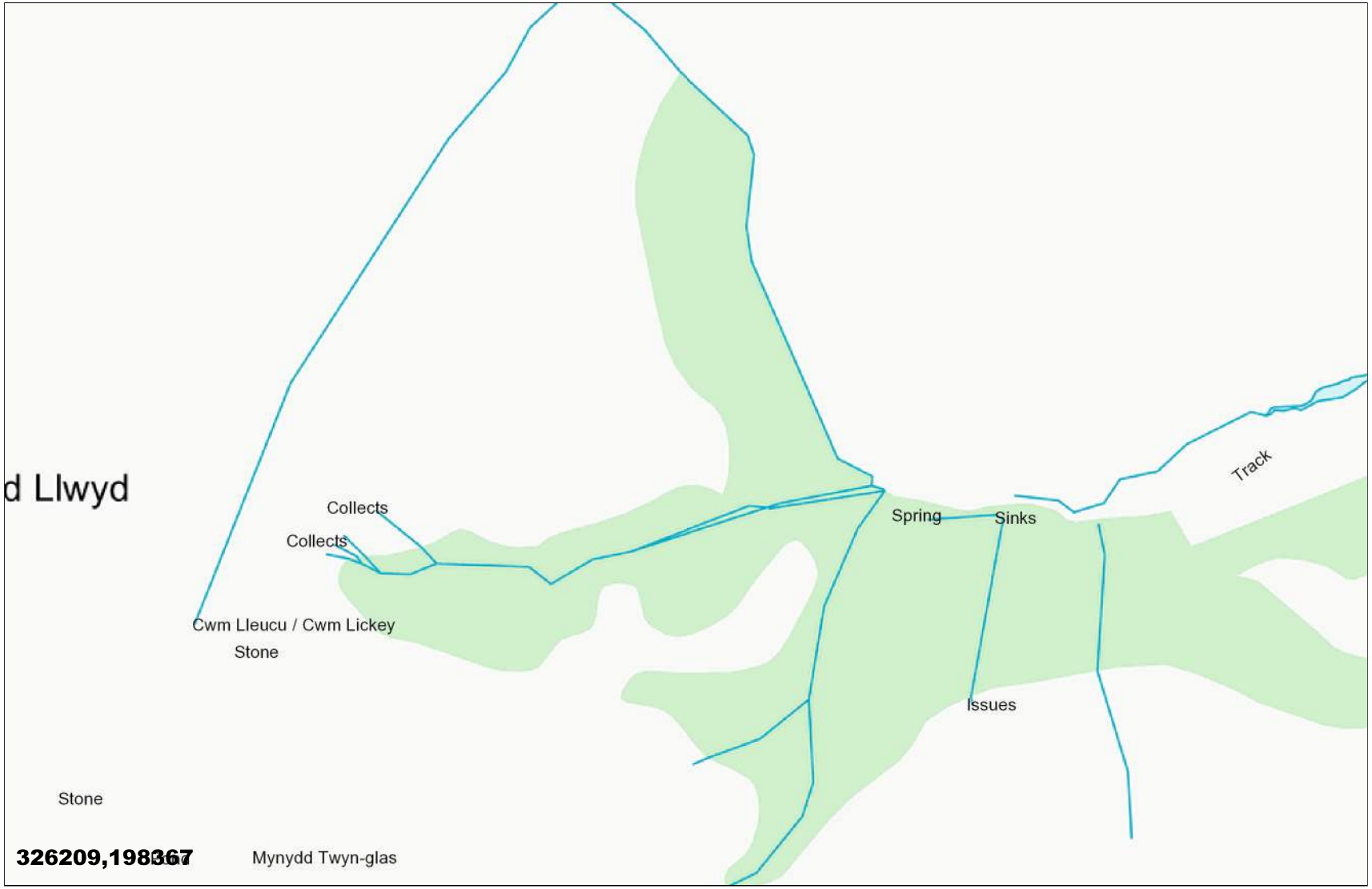
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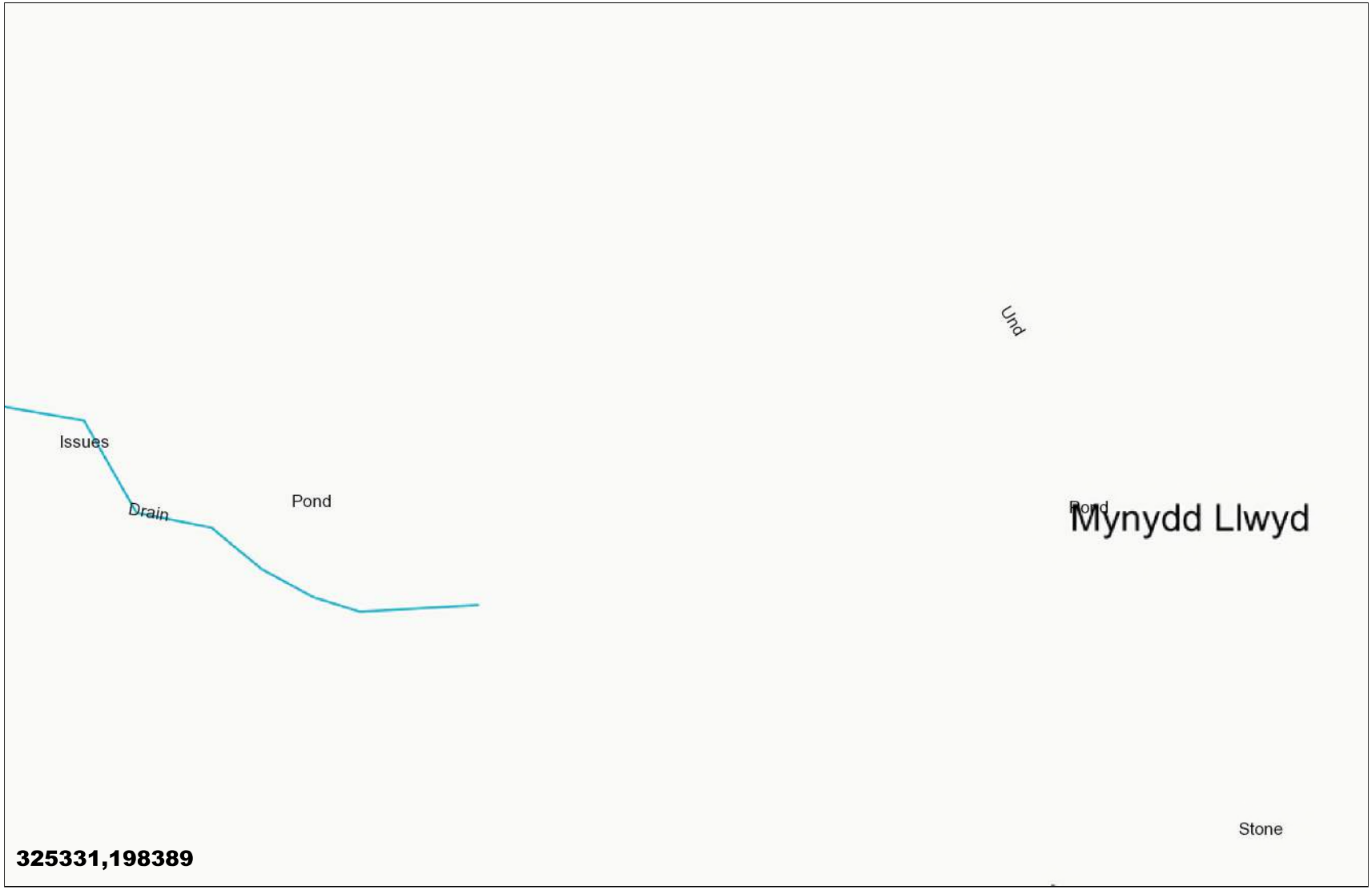
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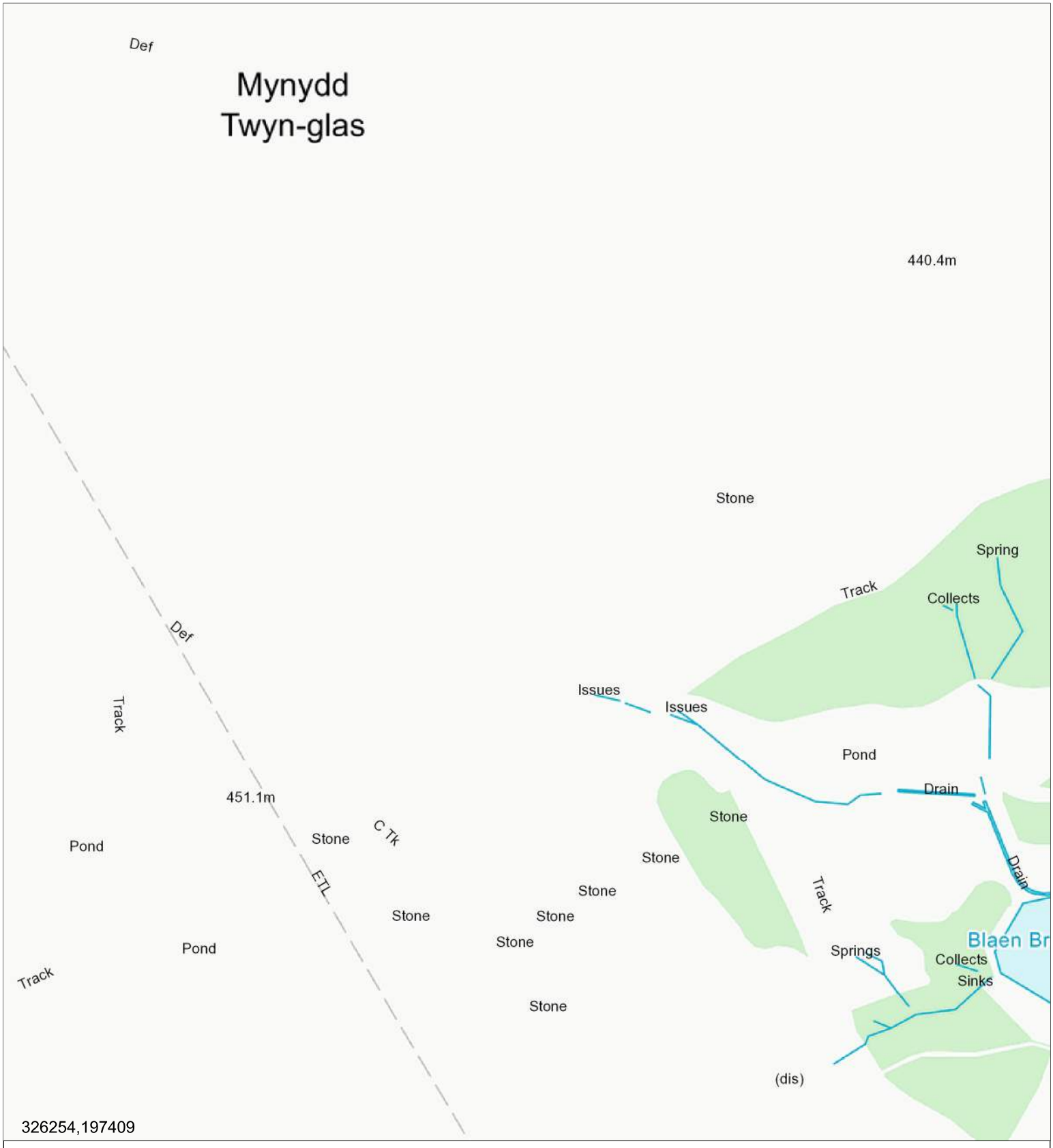
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Whilst every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases pipe material (other than Asbestos Cement or Pitch Fibre) may be found to be Asbestos Cement (AC) or Pitch Fibre (PF). It is therefore advisable that the possible presence of AC or PF pipes be anticipated and considered as part of any risk assessment prior to excavation



NOC/KHBPR961 Water & Sewers

Scale: 1:4500

03/09/2021

EXACT LOCATION OF ALL APPARATUS TO BE DETERMINED ON SITE

Dŵr Cymru Welsh Water

N W E S

LEGEND

- Sluice Valve
- Air Valve SINGLE
- Tap
- Pressure Reducing Valve
- Meter
- Bulk Meter
- Fire Hydrant
- Cap
- Non Dwr Cymru Existing Distribution Main
- Inspection Chamber
- Gravity Sewer
- Rising Main
- Outfall
- Pumping Station
- Lamphole
- Combined Sewer Overflow
- SPC Special Purpose Chamber
- Treatment Works
- Private Sewer Transfer
- Lateral Drain
- Combined Surface Water Foul

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NOC/KHBPR961 Water & Sewers

Scale: 1:4500

03/09/2021

EXACT LOCATION OF ALL APPARATUS TO BE DETERMINED ON SITE

Dŵr Cymru Welsh Water

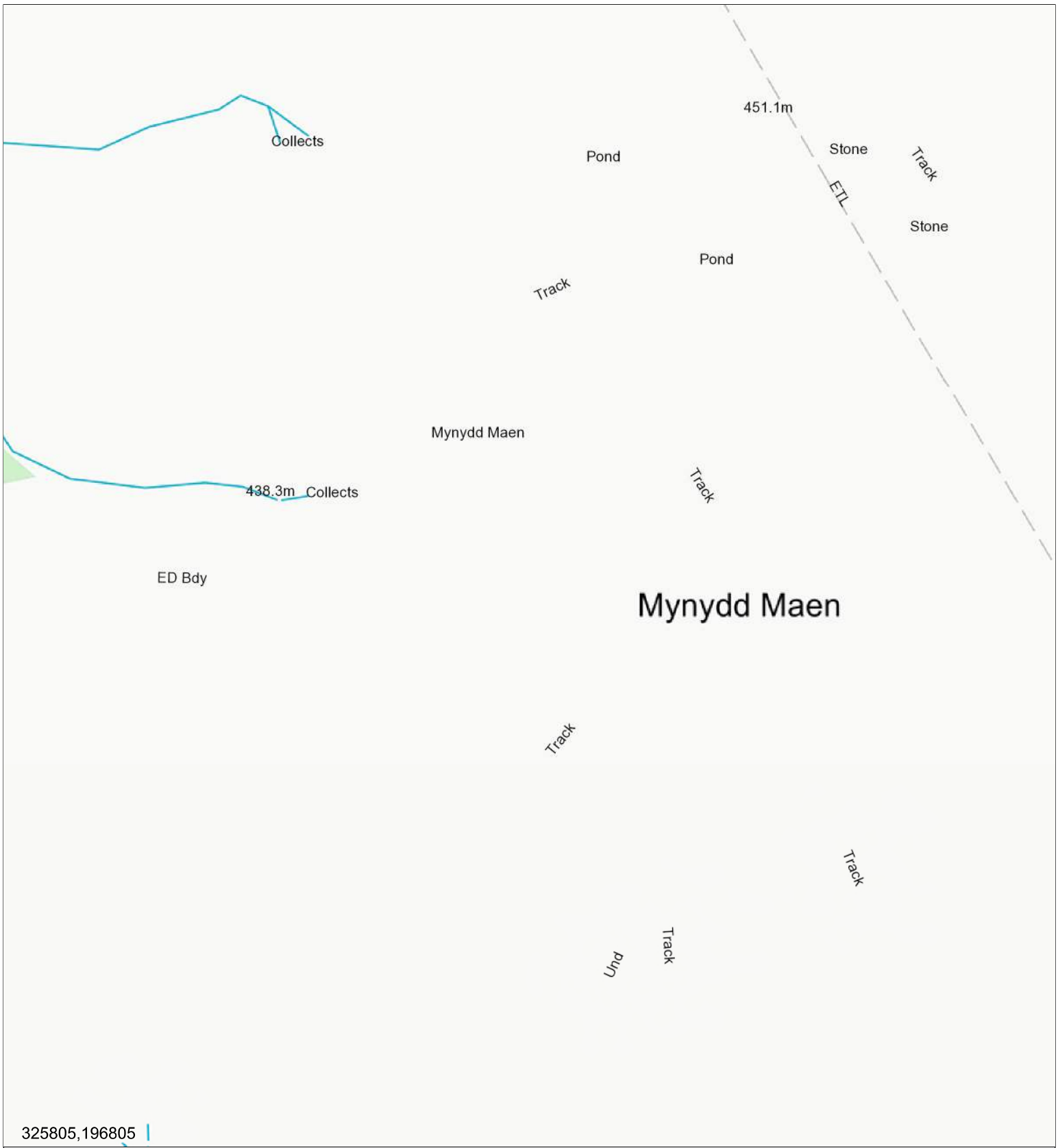
LEGEND

Sluice Valve
Air Valve SINGLE
Tap
Pressure Reducing Valve
Meter
Bulk Meter
Fire Hydrant
Cap
Non Dwr Cymru Existing Distribution Main
Inspection Chamber
Gravity Sewer
Rising Main
Outfall
Pumping Station
Lamphole
Combined Sewer Overflow
SPC Special Purpose Chamber
Treatment Works
Private Sewer Transfer
Lateral Drain
NB: Boundary Lines are Indicative Only
RED-GREEN-BROWN- Combined Surface Water Foul

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325805,196805

NOC/KHBPR961 Water & Sewers

Scale: 1:4500

03/09/2021

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Dŵr Cymru Welsh Water

N W E S

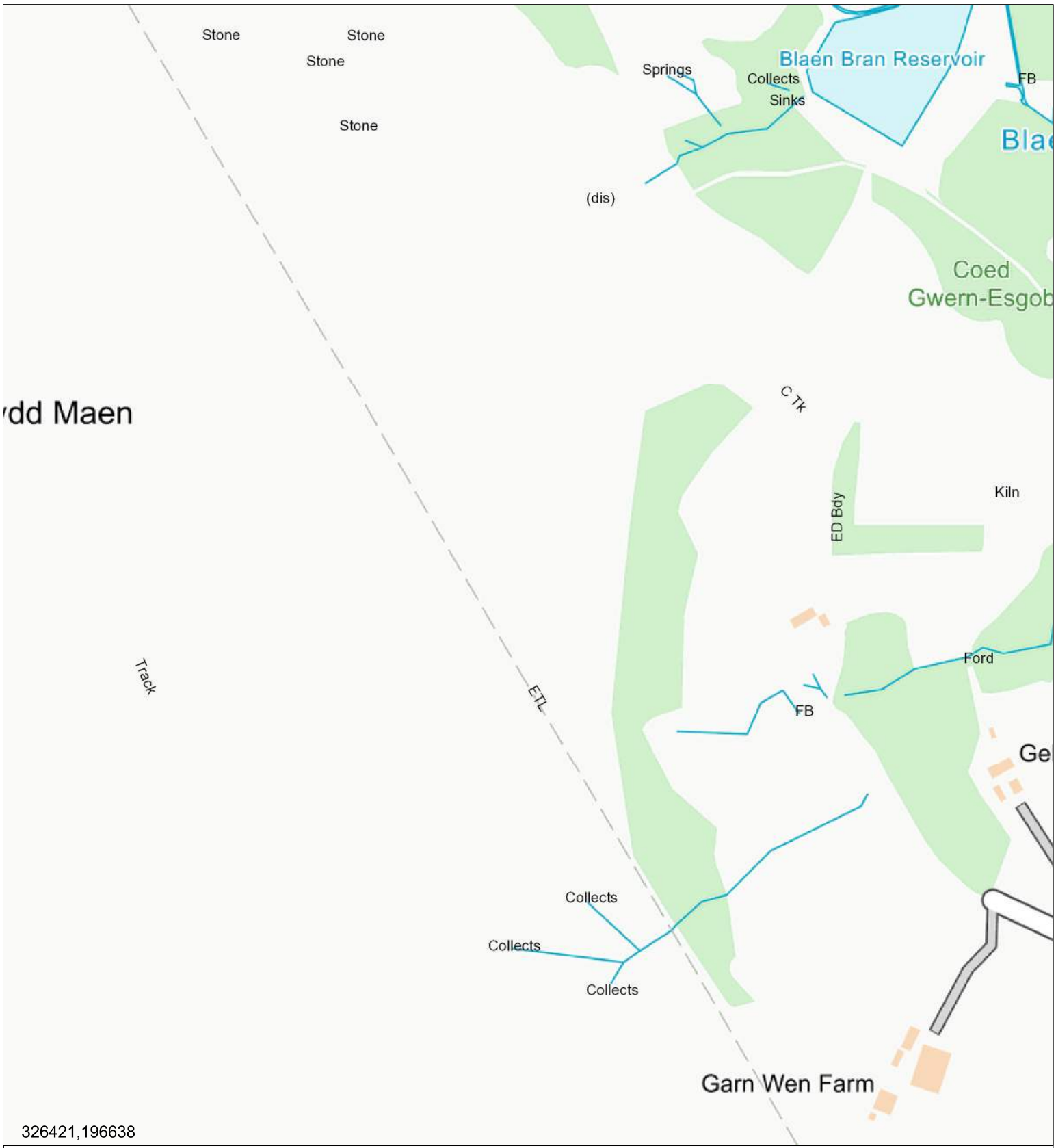
LEGEND

- Sluice Valve
- Air Valve SINGLE
- Tap
- Pressure Reducing Valve
- Meter
- Bulk Meter
- Fire Hydrant
- Cap
- Non Dwr Cymru Existing Distribution Main
- Inspection Chamber
- Gravity Sewer
- Rising Main
- Outfall
- Pumping Station
- Lamphole
- Combined Sewer Overflow
- SPC Special Purpose Chamber
- Treatment Works
- Private Sewer Transfer
- Lateral Drain
- Combined Surface Water Foul

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Scale: 1:4500

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Dŵr Cymru Welsh Water

N W E S

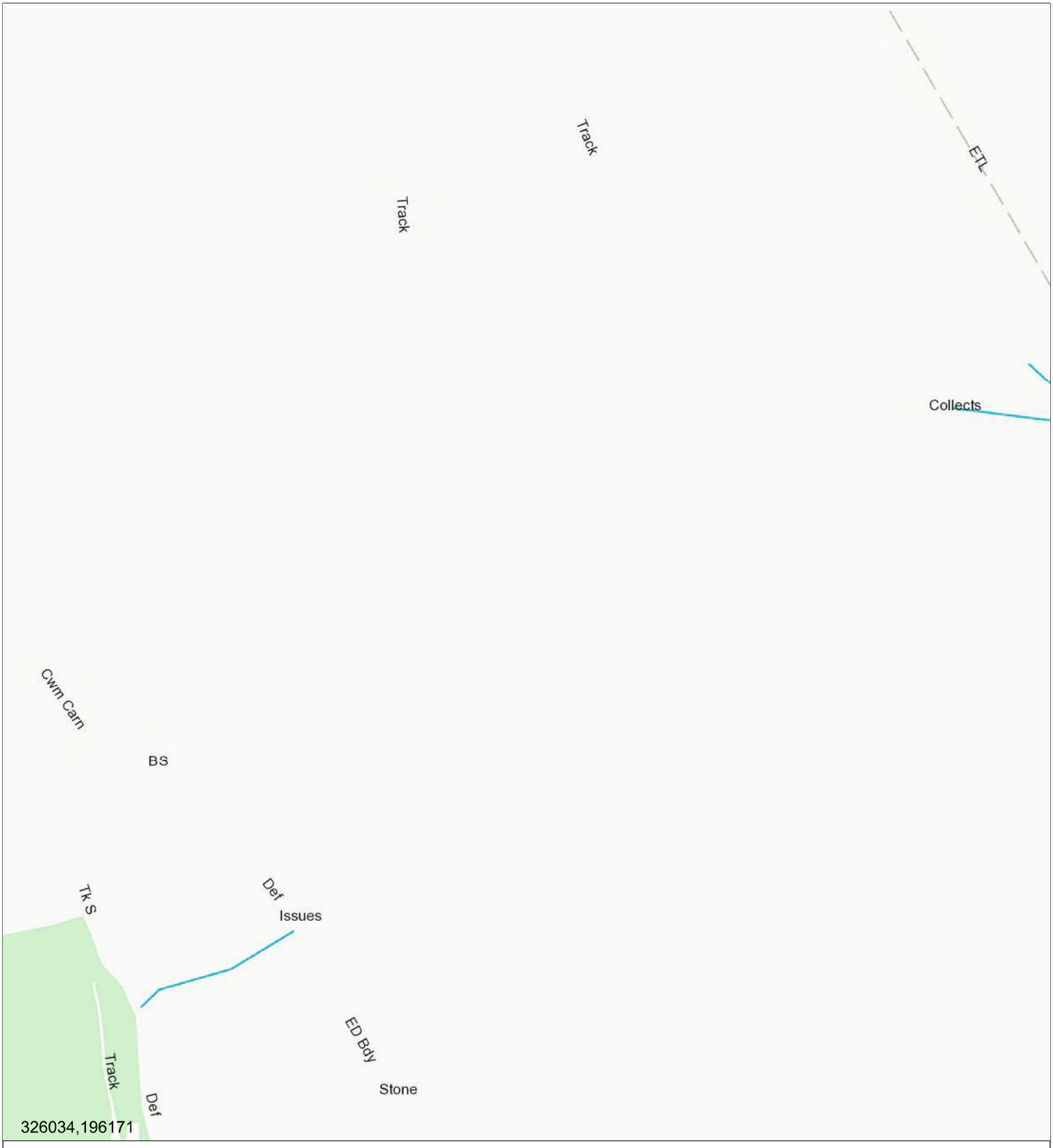
LEGEND

- Sluice Valve
- Air Valve SINGLE
- Tap
- Pressure Reducing Valve
- Meter
- Bulk Meter
- Fire Hydrant
- Cap
- Non Dwr Cymru Existing Distribution Main
- Inspection Chamber
- Gravity Sewer
- Rising Main
- Outfall
- Pumping Station
- Lamphole
- Combined Sewer Overflow
- SPC Special Purpose Chamber
- Treatment Works
- Private Sewer Transfer
- Lateral Drain
- Not: Road and Track Boundary
- RED-GREEN-BROWN - Combined Surface Water Foul

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Scale: 1:4500

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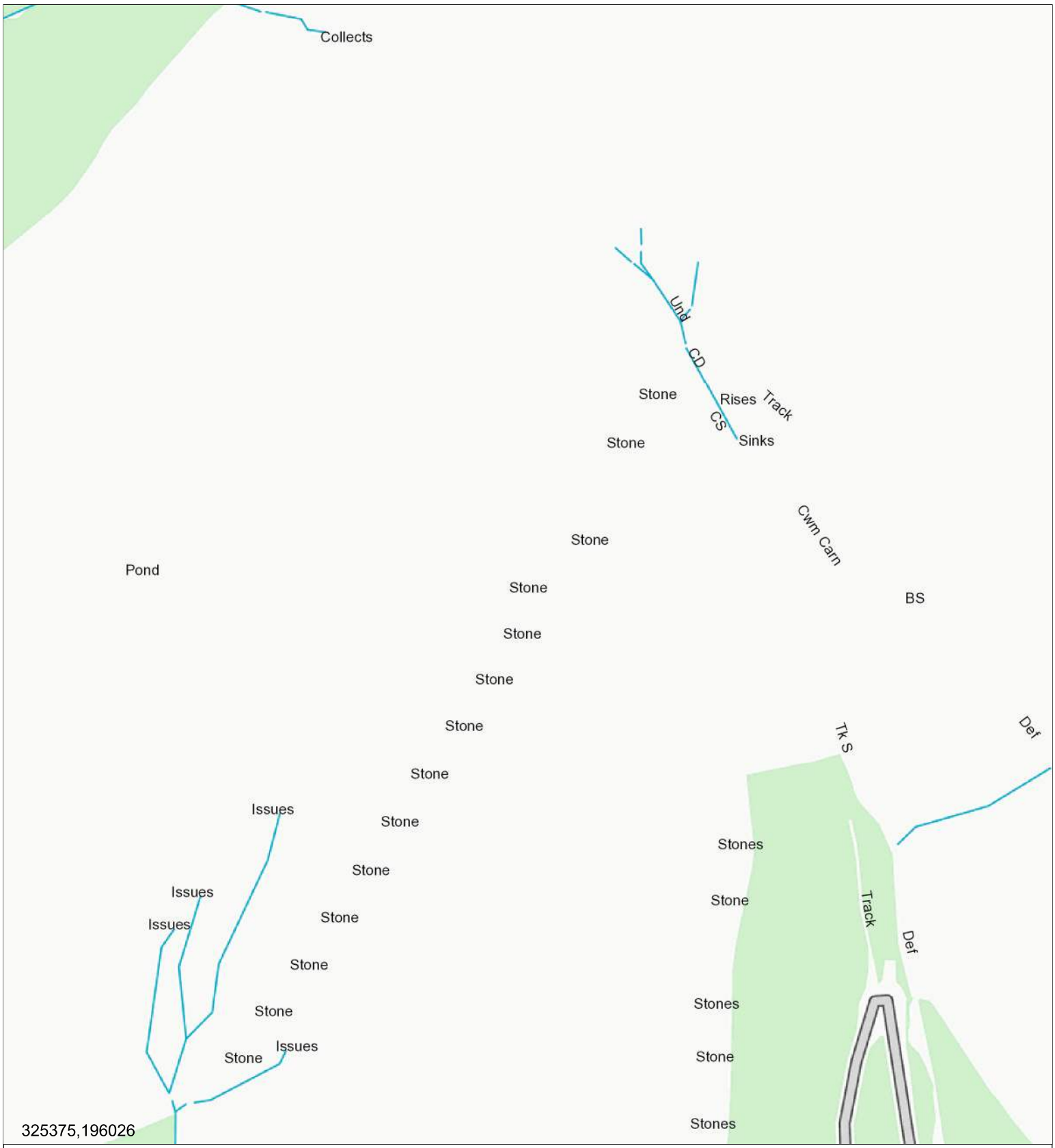
LEGEND

- Sluice Valve
- Air Valve SINGLE
- Tap
- Pressure Reducing Valve
- Meter
- Bulk Meter
- Fire Hydrant
- Cap
- Non Dwr Cymru Existing Distribution Main
- Inspection Chamber
- Gravity Sewer
- Rising Main
- Outfall
- Pumping Station
- Lamphole
- Combined Sewer Overflow
- SPC Special Purpose Chamber
- Treatment Works
- Private Sewer Transfer
- Lateral Drain
- Combined Surface Water Foul

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- Air Valve SINGLE
- Tap
- Pressure Reducing Valve
- Meter
- Bulk Meter
- Fire Hydrant
- Cap
- Non Dwr Cymru
- Existing Distribution Main
- Inspection Chamber
- Gravity Sewer
- Rising Main
- Outfall
- Pumping Station
- Lamphole
- Combined Sewer Overflow
- Special Purpose Chamber
- Treatment Works
- Private Sewer Transfer
- Lateral Drain
- Not Adopted
- Combined
- Surface Water
- Foul

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APPENDIX D
PHOTOGRAPHS

PHOTOGRAPHIC LOG		
Photo no. **1**	**Date:** 09/03/23	
T3(TP)		
Description: Before		

Photo No. **2**	**Date:** 09/03/23	
T3(TP)		
Description:		

Photo No.	Date:
3	09/03/23
T3(TP)	
Description:	



Photo No.	Date:
4	09/03/23
T3(TP)	
Description:	



Photo No.	Date:
5	09/03/23
T3(TP)	
Description:	



Photo No.	Date:
6	09/03/23
T3(TP)	
Description: After	



Photo No.	Date:
7	07/03/23
T7 (TP)	
Description:	



Photo No.	Date:
8	07/03/23
T7 (TP)	
Description:	



Photo No.	Date:
9	07/03/23
T7 (TP)	
Description:	



Photo No.	Date:
10	07/03/23
T7 (TP)	
Description:	



Photo No.	Date:
11	07/03/23
T7 (TP)	
Description: After	



Photo No.	Date:
12	07/03/23
T7 (RO)	
Description:	



Photo No.	Date:	
13	09/03/23	
T8 (TP)		
Description: Before		



Photo No.	Date:	
14	09/03/23	
T8 (TP)		
Description:		



Photo No. 15	Date: 09/03/23	
T8 (TP)		
Description:		

Photo No. 16	Date: 09/03/23	
T8 (TP)		
Description:		

Photo No. 17	Date: 09/03/23	
T8 (TP)		
Description:		

Photo No. 18	Date: 09/03/23	
T8 (TP)		
Description:		

Photo No. 19	Date: 09/03/23	
T8 (RO)		
Description: BEFORE		

Photo No. 20	Date: 09/03/23	
T8 (RO)		
Description:		

Photo No. 21	Date: 09/03/23	
T8 (RO)		
Description:		

Photo No. 22	Date:	
T11 (TP)		
Description:Before		

Photo No. 23	**Date:07/03/23**	
T11 (TP)		
Description:		

Photo No. 24	**Date:** 07/03/23	
T11 (TP)		
Description:		

Photo No.	Date:
25	07/03/23
T11 (TP)	
Description:	



Photo No.	Date:
26	07/03/23
T11 (TP)	
Description:	



Photo No. 27	Date: 07/03/23	
T11 (RO)		
Description:		

Photo No. 28	Date: 07/03/23	
T11 (RO)		
Description:		

APPENDIX E
TECHNICAL BACKGROUND

H1 Desk Study

Aquifer designation and Source protection zones

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

Preliminary risk assessment methodology

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the

likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

		Consequences			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**Highly likely**	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

H2 Site Investigation Methodology

Ground gas monitoring

An infrared gas meter was used to measure gas flow, concentrations of carbon dioxide (CO_2), methane (CH_4) and oxygen (O_2) in percentage by volume, while hydrogen sulphide (H_2S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. In addition, during the first monitoring round, all wells were screened with a PID to establish if there are any interferences and cross-sensitivity of other hydrocarbons with the infrared gas meter.

Low flow groundwater sampling

Groundwater samples were retrieved using a low-flow purging and sampling methodology

The low-flow method relies on moving groundwater through the well screen at approximately the same rate as it flows through the geological formation. This results in a significant reduction in the volume of water extracted before sampling and significantly reduces the amount of disturbance of the water in the monitoring well during purging and sampling. Drawdown levels in the monitoring well and water quality indicator parameters (pH, temperature, electrical conductivity, redox potential and dissolved oxygen) are monitored during low-flow purging and sampling, with stabilisation indicating that purging is complete and sampling can begin. As the flow rate used for purging, in most cases, is the same or only slightly higher than the flow rate used for sampling, and because purging and sampling are conducted as one continuous operation in the field, the process is referred to as low-flow purging and sampling.

Reuse of suitable materials

The Definition of Waste: Development Industry Code of Practice (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the

re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.

APPENDIX F
EXPLORATORY HOLE RECORDS

KEY TO EXPLORATORY HOLE LOGS - SUMMARY OF ABBREVIATIONS

ADDITIONAL NOTES

1. All soil and rock descriptions and legends in general accordance with BS EN ISO 14688-1:2018, 14688-2:2018, 14689:2018, and BS5930:2015+A1:2020.
2. Material types divided by a broken line (- - -) indicates an unclear boundary.
3. Fracture spacings (If) quoted in the Description of Strata for specific strata or specific fracture sets are also quoted in mm, e.g. (25/80/230) referring to (Min/Avg/Max).
4. The data on any sheet within the report showing the AGS icon is available in the AGS format.
5. Weathering desciptions in accordance with CIRIA Report C570 Engineering in Mercia Mudstone, CIRIA Report C574 Engineering in Chalk (2002), London Clay (King 1981), BS 5930:2015 Code of practice for ground investigations - Figure 9 - Approach 4, BS EN ISO 14689:2018 Geotechnical Investigation and testing - Identification, Description and Classification of Rock - Table 13, BS EN ISO 14689-1 2003 Geotechnical Investigation and testing - Identification and Classification of Rock - Part 1 - Identification and Description - Table 13, BS5930 (1999).

GINT_LIBRARY_V10_01.GLB|GrfcText G - LEGEND - 1 OF 2 | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01 | 04/06/24 - 15:39 | AW1.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk.

KEY TO EXPLORATORY HOLE LOGS - SUMMARY OF GRAPHIC SYMBOLS

WATER COLUMN SYMBOLS



First water strike, second water strike etc.



Standing water level following first strike, standing water level following second strike etc.



Seepage.



Standing water level recorded at documented date.

MATERIAL GRAPHIC LEGENDS



Clayey GRAVEL



COBBLES



Clayey PEAT



Clayey SAND



Clayey SAND with COBBLES



GRAVEL with COBBLES



PEAT



SAND



SAND with COBBLES



Sandstone



Sandy CLAY



Gravelly sandy CLAY



Sandy gravelly CLAY



Sandy PEAT



Silty PEAT



Sandy gravelly COBBLES



Sandy COBBLES

INSTRUMENTATION SYMBOLS



Backfill



Bentonite cement pellets

GINT_LIBRARY_V10_01.GLB|GrfcText G - LEGEND - 2 OF 2 | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01 | 04/06/24 - 15:39 | AW1.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk.

DRAFT

BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T3-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**13.03.23** End: **13.03.23**	**436.89**	**E:325494.1 N:198822.1**	**1** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grass over black amorphous peat with rootlets. (PEAT)	(0.60) 0.60	
				Brown sandy slightly gravelly silty clay. Gravel is angular fine to coarse of sandstone. Sand is fine to coarse. (Weathered Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)	(0.80) 1.40	
				Highly weathered greyish brown SANDSTONE. (Weatherd Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)	(0.80) 2.20	
				Greyish brown SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Water seepage at 0.60m depth.
3. Inspection pit hand dug to 1.20m depth.
4. On completion, borehole backfilled with bentonite pellets.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**KBancroft**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T3-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**13.03.23** End: **13.03.23**	**436.89**	**E:325494.1 N:198822.1**	**2** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Greyish brown SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 2.20m from previous sheet)*	(17.80)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**KBancroft**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T3-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**13.03.23** End: **13.03.23**	**436.89**	**E:325494.1 N:198822.1**	**3** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Greyish brown SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 2.20m from previous sheet)*	20.00	
				Borehole terminated at 20.00mbgl.		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**KBancroft**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 03/05/23 - 11:48 | SB5 |

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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T7-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**09.03.23** End: **09.03.23**	**443.25**	**E:324780.1 N:198334.6**	**1** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grass over black amorphous peat with rootlets.	0.30	
				Brown slightly gravelly sandy clay. Gravel is angular fine to coarse of sandstone. Sand is fine to coarse. (Weathered Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)	(0.90)	
				Grey SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)	1.20	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit terminated at 1.20m depth.
3. On completion, borehole backfilled with bentonite pellets.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T7-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**09.03.23** End: **09.03.23**	**443.25**	**E:324780.1 N:198334.6**	**2** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grey SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 1.20m from previous sheet)*	(18.80)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	

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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T7-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**09.03.23** End: **09.03.23**	**443.25**	**E:324780.1 N:198334.6**	**3** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grey SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 1.20m from previous sheet)*	20.00	
				Terminated at 20.0mbgl		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	JB

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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T8-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**07.03.23** End: **07.03.23**	**463.41**	**E:325881.9 N:198182.0**	**1** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grass over black plastic/sponges amorphous PEAT.	0.30	
				Soft orange brown slightly sandy gravelly CLAY. Gravel is angular medium and coarse of sandstone. Sand is fine to coarse. (HUGHES BEDS - UPPER PENNANT MEASURES)	(0.90)	
				Grey SANDSTONE. (HUGHES BEDS - UPPER PENNANT MEASURES)	1.20	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit terminated at 1.2m depth.
3. On completion, borehole backfilled with bentonite pellets.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	JB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T8-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**07.03.23** End: **07.03.23**	**463.41**	**E:325881.9 N:198182.0**	**2** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grey SANDSTONE. (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 1.20m from previous sheet)*	(18.80)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T8-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**07.03.23** End: **07.03.23**	**463.41**	**E:325881.9 N:198182.0**	**3** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grey SANDSTONE. (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 1.20m from previous sheet)*	20.00	
				Terminated at 20.0mbgl		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	JB

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GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T11-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**06.03.23** End: **06.03.23**	**453.96**	**E:325741.0 N:196965.9**	**1** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Moss over organic black plastic/spongey, clayey amorphous PEAT.	0.20	
				Orange brown silty clayey angular fine to coarse GRAVEL of sandstone. (Weathered Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)	(0.80)	
					1.00	
				Grey SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES)		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.
2. Inspection pit hand dug to 1.0m depth.
3. On completion, borehole backfilled with bentonite pellets.

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 03/05/23 - 11:48 | SB5 |

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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T11-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**06.03.23** End: **06.03.23**	**453.96**	**E:325741.0 N:196965.9**	**2** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grey SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 1.00m from previous sheet)* . . . Becoming stronger	(19.00)	

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log ROTARY OPENHOLE LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 03/05/23 - 11:48 | SB5 |

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BOREHOLE LOG

Contract:	Client:	Borehole:
Mynydd Maen	**Renewable Energy Systems Limited**	**T11-RO**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**06.03.23** End: **06.03.23**	**453.96**	**E:325741.0 N:196965.9**	**3** of **3**

Drilling Progress Log		Backfill	Water	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	Drill Time (hh:mm)					
				Grey SANDSTONE. (Hughes Member) (HUGHES BEDS - UPPER PENNANT MEASURES) *(stratum copied from 1.00m from previous sheet)*	20.00	
				Terminated at 20mbgl.		

Drilling Progress and Water Observations					
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth

General Remarks

All dimensions in metres | Scale: **1:50**

Method Used:	Plant Used:	Drilled By:	Logged By:	Checked By:
Rotary openhole drilling	**Comacchio GEO 305**	**Ben Mitchell**	**RLockyer**	

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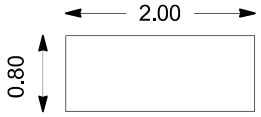
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Mynydd Maen	**Renewable Energy Systems Limited**	**T3-TP**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**09.03.23** End: **09.03.23**	**436.89**	**E:325494.1 N:198822.1**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Dark brown spongy to firm sandy amorphous PEAT contains frequent roots.	(0.35) 0.35	
						Brown clayey fine to course SAND	0.60	
						Yellowish brown mottled greenish grey gravely fine to coarse SAND. Gravel is Sub angular to sub angular fine to coarse sandstone (Weathered Hughes Member)	(0.40) 1.00	
						Wethered bedrock recovered as yellowish brown gravely sandy COBBLES of sandstone . Gravel is angular to Sub angular fine to coarse sandstone (Weathered Hughes Member)	(1.20) 2.20	
						Terminated on hard bedrock		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Tracked excavator**	**CIrwin**	JB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 13/04/23 - 16:43 | RL6 |

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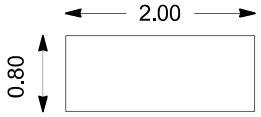
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Mynydd Maen	Renewable Energy Systems Limited	T7-TP

Contract Ref:	Start: 07.03.23	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	End: 07.03.23	443.25	E:324780.1 N:198334.6	1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Black slightly sandy amorphous spongy to plastic PEAT.	(0.30) 0.30	
						Soft brown sandy CLAY. Sand is fine to coarse.	0.50	
						Brown mottled yellowish brown very clayey fine to coarse SAND. (Weathered Hughes Member)	(0.40) 0.90	
						Yellowish brown slightly gravely fine to coarse SAND contains sandstone cobbles. Gravel is angular to sub angular fine to coarse sandstone. (Weathered Hughes Member)	(0.40) 1.30	
						Yellowish brown sandy angular to sub angular fine to course GRAVEL of sandstone contains frequent cobblesof sandstone. Sand is fine to coarse. (Weathered Hughes Member)	(0.80) 2.10	
						Greenish grey COBBLES of sandstone. (Weathered Hughes Member)	(0.40) 2.50	
						Terminated on hard bedrock		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.

All dimensions in metres | Scale: 1:25

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	Tracked excavator	CIrwin	JB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
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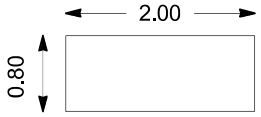
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Mynydd Maen	Renewable Energy Systems Limited	T8-TP

Contract Ref:	Start: 09.03.23	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	End: 09.03.23	463.41	E:325881.9 N:198182.0	1 of 1

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Black sandy spongy to firm amorphous PEAT contains frequent roots	(0.30)	
							0.30	
						Brown clayey fine to coarse SAND	0.40	
						Yellowish brown mottled orangeish brown very gravely clayey fine to coarse SAND contains cobbles of sandstone. Gravel is angular to sub angular sandstone. (Weathered Hughes Member)	(0.85)	
							1.25	
						Yellowish brown sandy gravely COBBLES. Gravel is angular to sub angular fine to coarse sandstone. Contains Infrequent boulders upto 60 cm . Becoming more cobbley with depth (Weathered Hughes Member)	(0.75)	
							2.00	
						Terminated due to hard bed rock		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.

All dimensions in metres | Scale: 1:25

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	Tracked excavator	CIrwin	JB

AGS

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 13/04/23 - 16:43 | RL6 |

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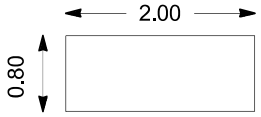
TRIAL PIT LOG

Contract:	Client:	Trial Pit:
Mynydd Maen	**Renewable Energy Systems Limited**	**T11-TP**

Contract Ref:	Start:	Ground Level:	National Grid Co-ordinate:	Sheet:
315198	**07.03.23** End: **07.03.23**	**453.96**	**E:325741.0 N:196965.9**	**1** of **1**

Samples and In-situ Tests				Water	Backfill	Description of Strata	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
						Black Spongy to firm sandy amorphous PEAT	0.20	
						Yellowish brown slightly clayey sandy fine to coarse angular to sub angular GRAVEL contains sandstone cobbles. Sand is fine to coarse. (Weathered Hughes Member)	(1.20)	
							1.40	
						Greenish grey slightly sandy gravely COBBLES of sandstone. Gravel is angular fine to coarse sandstone. Sand is fine to coarse. (Weathered Hughes Member)	(0.60)	
							2.00	
						Hole terminated due to hard bedrock		

Plan (Not to Scale)



General Remarks

1. Position checked with Ground Penetrating Radar, CAT and Genny prior to excavation.

All dimensions in metres | Scale: **1:25**

Method Used:	Plant Used:	Logged By:	Checked By:
Machine dug	**Tracked excavator**	**CIrwin**	JB

GINT_LIBRARY_V10_01.GLB LibVersion: v8_07_001 PrjVersion: v8_07 | Log TRIAL PIT LOG - A4P | 315198 - MYNYDD MAEN, WIND FARM.GPJ - v10_01.
RSK Environment Ltd, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117 947 1006 Fax: 0117 947 1009 Web: www.rsk.co.uk. | 13/04/23 - 16:43 | RL6 |

Annex D

CONSULTANTS COAL MINING REPORT

Confidential

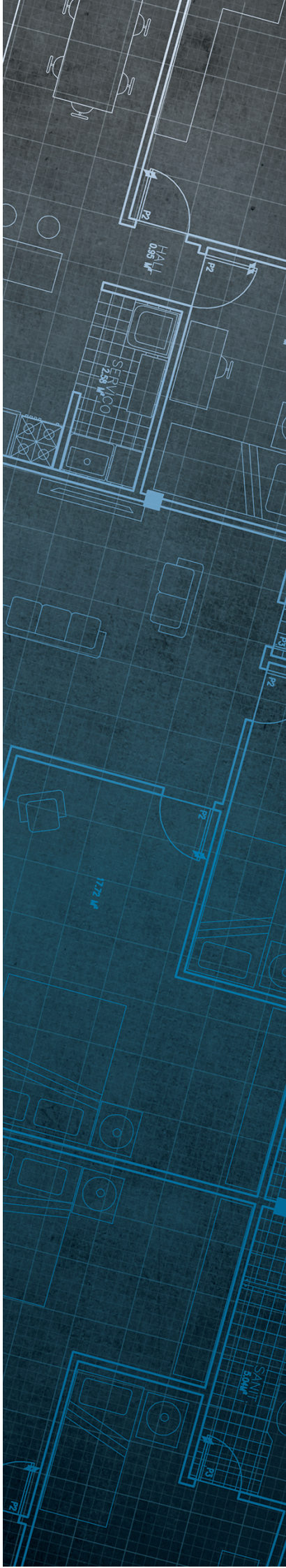
The Coal Authority

Consultants

Coal Mining Report

Rhyswg
Wales

Date of enquiry:	**12 September 2025**
Date enquiry received:	**12 September 2025**
Issue date:	**12 September 2025**
Our reference:	**71009828911001**
Your reference:	**WSP-PW4-653-WTF-ARU**



Consultants

Coal Mining Report

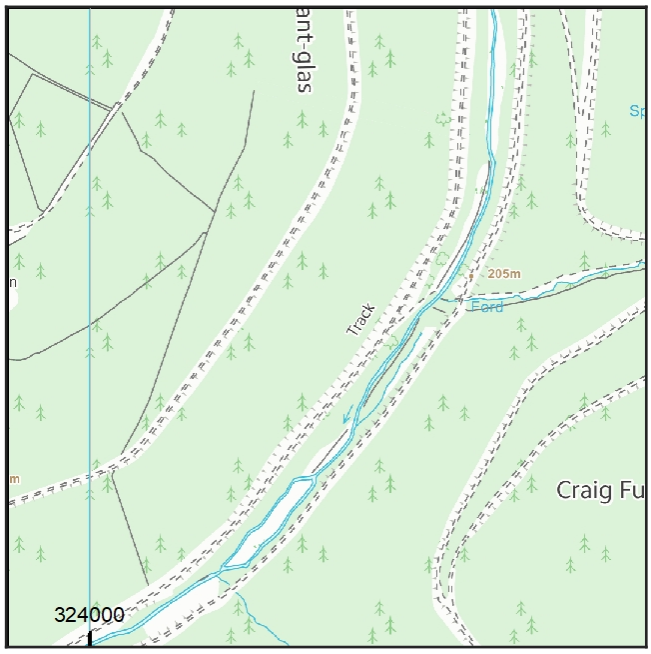
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

Rhyswg
Wales



Approximate position of property

Map data

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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	TILLERY BRITHDIR	Coal	47N5	179	Beneath Property	5.2	West	110	1960
unnamed	TILLERY BRITHDIR	Coal	47NI	180	Beneath Property			120	1955
unnamed	TILLERY BRITHDIR	Coal	47NT	180	Beneath Property			80	1934
unnamed	TILLERY BRITHDIR	Coal	47N4	192	Beneath Property	3.6	South-West	110	1960
unnamed	TILLERY BRITHDIR	Coal	47NL	196	Beneath Property	3.4	West	120	1955
unnamed	TILLERY BRITHDIR	Coal	47N7	200	Beneath Property	5.0	South-West	120	1934
unnamed	TILLERY BRITHDIR	Coal	47NH	202	Beneath Property	3.7	South-West	120	1952
unnamed	TILLERY BRITHDIR	Coal	47NK	203	Beneath Property			120	1975
unnamed	FOUR FOOT	Coal	47LX	297	Beneath Property	6.1	West	175	1963
unnamed	NO.2 RHONDDA	Coal	41QN	298	Beneath Property	2.7	North-West	84	1887
unnamed	FOUR FOOT	Coal	47LY	318	Beneath Property	6.6	West	175	1963
unnamed	FOUR FOOT	Coal	47LZ	333	Beneath Property	9.1	West	175	1963
unnamed	FOUR FOOT	Coal	47M0	336	Beneath Property	3.7	West	190	1962
unnamed	SEVEN FOOT RIDER	Coal	47FC	340	Beneath Property	7.1	West	188	1911
unnamed	LOWER NINE FOOT	Coal	47I5	341	Beneath Property	9.2	West	240	1951
unnamed	LOWER NINE FOOT	Coal	47I2	342	Beneath Property	6.3	West	240	1861
unnamed	FOUR FOOT	Coal	47M8	348	North	4.0	West	190	1956
unnamed	LOWER NINE FOOT	Coal	47HZ	360	Beneath Property	8.4	West	240	1906
unnamed	LOWER NINE FOOT	Coal	47HD	361	Beneath Property	7.6	West	200	1892
unnamed	SEVEN FOOT RIDER	Coal	47FH	366	Beneath Property	4.6	West	239	1951
unnamed	SEVEN FOOT RIDER	Coal	49EZ	377	Beneath Property	7.1	West	188	1915
unnamed	SEVEN FOOT RIDER	Coal	47F4	378	Beneath Property	4.0	North-West	188	1945

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Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	LOWER NINE FOOT	Coal	47HI	378	Beneath Property	3.0	West	300	1887
unnamed	LOWER NINE FOOT	Coal	47H3	387	Beneath Property	6.1	West	244	1891
unnamed	LOWER NINE FOOT	Coal	47HH	387	Beneath Property	2.7	North-West	300	1887
unnamed	LOWER NINE FOOT	Coal	47HE	389	Beneath Property	6.0	West	300	1934
unnamed	LOWER NINE FOOT	Coal	47HC	390	Beneath Property	7.3	South-West	200	1880
unnamed	LOWER NINE FOOT	Coal	47HV	393	East	10.2	North	244	1926
unnamed	LOWER NINE FOOT	Coal	47H2	396	Beneath Property	8.8	West	244	1883
unnamed	SEVEN FOOT RIDER	Coal	47F2	398	Beneath Property	5.3	West	201	1943
unnamed	LOWER NINE FOOT	Coal	47H6	399	South	4.8	South-West	300	1930
unnamed	SEVEN FOOT RIDER	Coal	47EX	402	Beneath Property	4.8	West	216	1944
unnamed	LOWER NINE FOOT	Coal	47GJ	406	North-East	10.6	North-West	330	1936
unnamed	LOWER NINE FOOT	Coal	47H4	406	East	5.6	North-West	244	1917
unnamed	LOWER NINE FOOT	Coal	47HB	412	West	3.9	West	200	1895
unnamed	SEVEN FOOT RIDER	Coal	47ET	414	South-East	7.5	West	246	1924
unnamed	SEVEN FOOT RIDER	Coal	47EY	416	West	5.7	West	188	1965
unnamed	SEVEN FOOT RIDER	Coal	47ER	416	North-West	5.8	West	274	1927
unnamed	SEVEN FOOT RIDER	Coal	47EV	417	Beneath Property	8.2	West	170	1966
unnamed	LOWER NINE FOOT	Coal	47HF	417	Beneath Property	5.7	West	300	1936
unnamed	FOUR FOOT	Coal	41OP	418	Beneath Property	3.6	West	160	1956
unnamed	UPPER 6FT RIDER	Coal	47L5	419	Beneath Property	5.3	South-West	99	1959
unnamed	LOWER NINE FOOT	Coal	47FZ	421	Beneath Property	2.1	West	198	1938
unnamed	LOWER NINE FOOT	Coal	47H5	422	Beneath Property	4.8	South-West	300	1930
unnamed	LOWER NINE FOOT	Coal	47H0	423	Beneath Property	3.8	West	200	1908
unnamed	LOWER NINE FOOT	Coal	47GV	424	Beneath Property	9.5	West	200	1909
unnamed	SEVEN FOOT RIDER	Coal	47F3	424	North-West	5.1	North-West	201	1924
unnamed	FOUR FOOT	Coal	41OQ	425	Beneath Property	5.5	West	140	1955

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Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	LOWER NINE FOOT	Coal	47GR	426	Beneath Property	8.2	West	200	1888
unnamed	LOWER NINE FOOT	Coal	47GU	432	Beneath Property	3.3	North-West	200	1917
unnamed	UPPER 6FT RIDER	Coal	41OL	433	South-East	1.9	West	110	1957
unnamed	LOWER NINE FOOT	Coal	47GT	435	South-East	3.1	North-West	200	1933
unnamed	LOWER NINE FOOT	Coal	47GS	437	Beneath Property	3.1	North-West	200	1937
unnamed	UPPER 6FT RIDER	Coal	41OI	437	South-East	3.2	North-West	110	1957
unnamed	LOWER NINE FOOT	Coal	47G9	438	Beneath Property	5.0	North-West	330	1929
unnamed	LOWER NINE FOOT	Coal	47GI	438	North	6.4	South-West	330	1924
unnamed	LOWER NINE FOOT	Coal	47GQ	439	Beneath Property	3.3	North-West	200	1938
unnamed	LOWER NINE FOOT	Coal	47GH	440	Beneath Property	5.9	West	330	1929
unnamed	LOWER NINE FOOT	Coal	47GE	443	Beneath Property	6.3	West	330	1934
unnamed	SEVEN FOOT RIDER	Coal	47EI	445	Beneath Property	7.4	West	246	1946
unnamed	LOWER NINE FOOT	Coal	47GD	446	South-West	4.0	West	330	1924
unnamed	SEVEN FOOT RIDER	Coal	47F1	447	South	5.2	South-West	201	1949
unnamed	LOWER NINE FOOT	Coal	40WK	450	Beneath Property	3.8	North-West	310	1900
unnamed	LOWER NINE FOOT	Coal	40WI	451	Beneath Property	3.6	North-West	310	1900
unnamed	SEVEN FOOT RIDER	Coal	40TG	459	Beneath Property	4.5	South-West	191	1945
unnamed	LOWER NINE FOOT	Coal	40WP	459	Beneath Property	3.3	West	213	1933
unnamed	SEVEN FOOT RIDER	Coal	40TC	459	South	0.0	East	151	1939
unnamed	SEVEN FOOT RIDER	Coal	47E5	461	Beneath Property	3.3	North-West	173	1939
unnamed	LOWER NINE FOOT	Coal	40WO	463	Beneath Property	0.0	East	213	1933
unnamed	LOWER NINE FOOT	Coal	40WN	463	South	0.0	East	213	1900
unnamed	LOWER NINE FOOT	Coal	47GA	464	South	4.6	West	330	1924
unnamed	FIVE FOOT GELLIDEG	Coal	40PO	468	Beneath Property	5.9	West	160	1949
unnamed	SEVEN FOOT RIDER	Coal	47E4	468	Beneath Property	0.4	South-West	150	1948
unnamed	FIVE FOOT GELLIDEG	Coal	47CP	470	Beneath Property	3.5	North-West	139	1947

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
CWMCARN	SEVEN FOOT RIDER	Coal	47E3	481	North-West	3.4	West	169	1981
unnamed	SEVEN FOOT RIDER	Coal	47EH	487	North	6.2	West	226	1941
unnamed	LOWER NINE FOOT	Coal	47FY	492	North	2.3	North-West	290	1922
unnamed	SEVEN FOOT RIDER	Coal	47E2	493	Beneath Property	3.5	West	171	1984
CWMCARN	SEVEN FOOT RIDER	Coal	40TF	496	Beneath Property	4.1	West	120	1983
unnamed	LOWER NINE FOOT	Coal	47GC	497	South	8.7	West	330	1924
unnamed	SEVEN FOOT RIDER	Coal	47EG	502	Beneath Property	6.5	West	174	1940
unnamed	LOWER NINE FOOT	Coal	40WJ	503	West	1.0	West	310	1900
unnamed	SEVEN FOOT RIDER	Coal	47E6	505	North-West	0.0	East	159	1931
unnamed	LOWER NINE FOOT	Coal	47JA	507	West	6.2	South-West	330	1924
unnamed	SEVEN FOOT RIDER	Coal	40TE	520	North-West	3.3	East	171	1931
unnamed	FIVE FOOT GELLIDEG	Coal	40PN	527	West	0.0	East	230	1920
unnamed	SEVEN FOOT RIDER	Coal	47DU	532	West	6.3	West	186	1948

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

SWA950	6865	13611
SWA1406	SWA947	SWR2075
2113	13595	SWA1094

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

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	67
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	105
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	157
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	205
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	228
MYNYDDISLWYN LOWER LEAF	Coal	Yes	20.4	South-East	235
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	256
MYNYDDISLWYN LOWER LEAF	Coal	Yes	Within	N/A	321

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

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

Site investigations
None recorded within 50 metres of the enquiry boundary.

Remediated sites
None recorded within 50 metres of the enquiry boundary.

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

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

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

Mine gas
None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes
None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

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

Court orders
None recorded.

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

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1955, 1962, 1975, 1976 and 1982.

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

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

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Section 4 – Further information

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

Future development

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

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

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

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

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Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Annex E

THE COAL AUTHORITY SUMMARY OF FINDINGS PLAN

Confidential

The Coal Authority

Summary of findings

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Map data

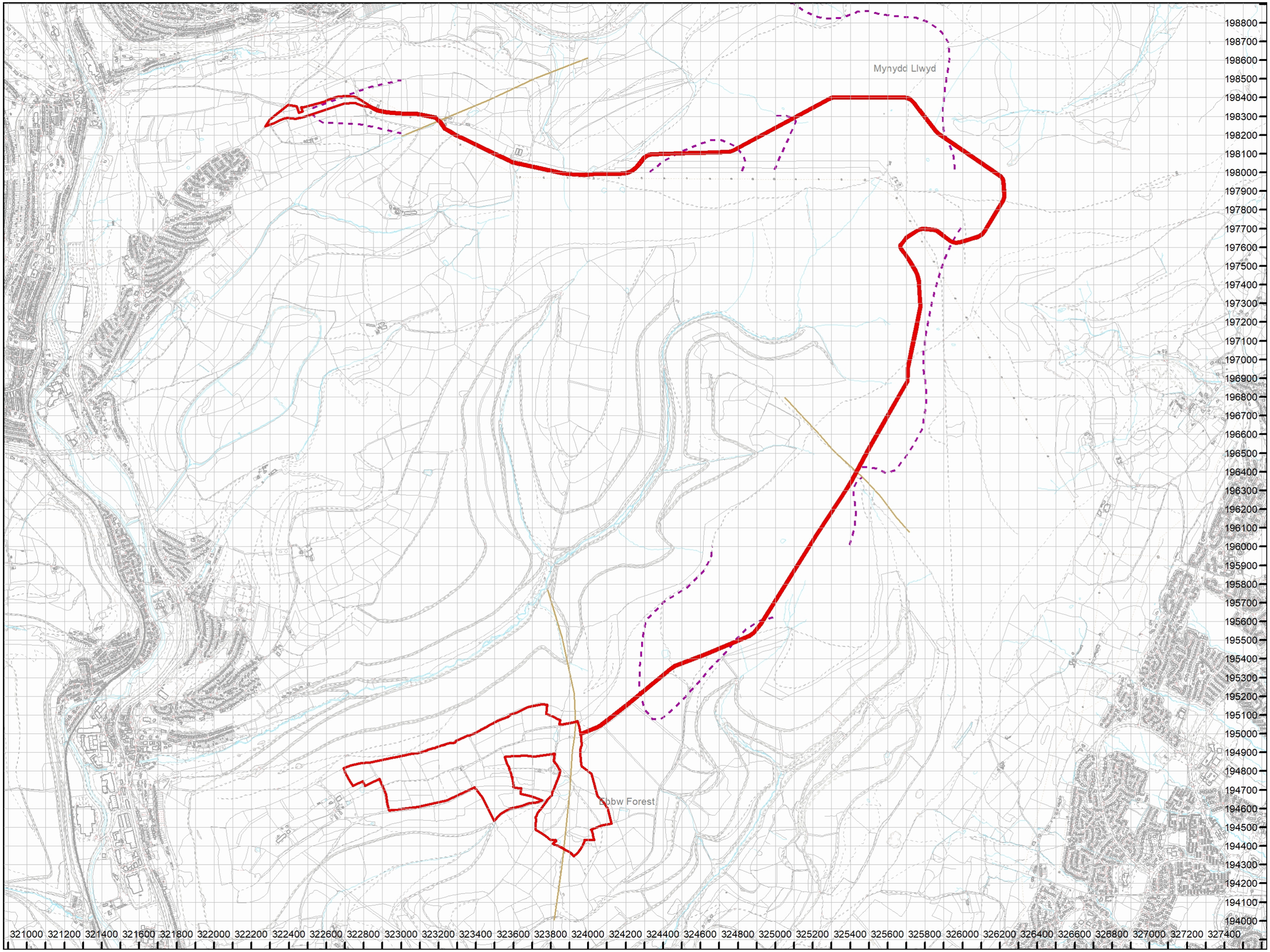
The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown

Outcrop (Conjectured)

Geological faults



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www.groundstability.com

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Tyndall Street
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CF10 4BZ

wsp.com

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Annex F - Risk Assessment Methodology

RISK ASSESSMENT METHODOLOGY

The environmental risk assessment aims to assess the significance of each potential contaminant linkage. The key to the classification is that the designation of risk is based upon the consideration of both:

- **The magnitude of the potential consequence** (i.e. severity). It takes into account both the potential severity of the hazard and the sensitivity of the receptor.
- **The magnitude of probability** (i.e. likelihood). It takes into account both the presence of the hazard and receptor and the integrity of the pathway.

The definitions for the qualitative risk assessment have been taken from "Guidance for the Safe Development of Housing on Land Affected by Contamination" Annex 4 R&D Publication 66: 2008 Volume 2.

The Likelihood Probability Classifications of SPR Linkage being realised is presented in **Table B.1**.

TABLE B.1 LIKELIHOOD PROBABILITY CLASSIFICATIONS OF SPR LINKAGE BEING REALISED

Classification	Definition	Examples
Unlikely	There is pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long-term.	a) Elevated concentrations of toxic contaminants are present below hardstanding. b) Light industrial unit <10 yrs old containing a double skinned UST with annual integrity testing results available.
Low Likelihood	There is pollutant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a long period such an event would take place, and is less likely in the shorter term.	a) Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space. b) Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.
Likely	There is pollutant linkage and all the elements are present and in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short-term and likely over the long-term.	a) Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space. b) Ground/ groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.
High Likelihood	There is pollutant linkage and an event would appear very likely in the short-term and almost inevitable over the long-term, or there is evidence at the receptor of harm or pollution	a) Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden. b) Ground/groundwater contamination could be present from chemical works, containing a number of USTs,

Classification	Definition	Examples
		having been in operation on the same site for over 50 years.

“Potential Consequence of Contaminant Linkage” gives an indication of the sensitivity of a given receptor to a particular source or contaminant of concern under consideration. It is based on full exposure via the particular linkage being examined. The classification of consequence is presented in **Table B.2**.

TABLE B.2 OUTLINE OF HAZARD CONSEQUENCE CLASSIFICATIONS FOR RECEPTOR TYPES FROM CONTAMINATION IMPACT:

Classification	Human Health	Controlled Water	Ecology	Property	Examples
				Structures/ Crops and animals	
Severe	Highly elevated concentrations **likely** to result in "significant harm" to human health as defined by the EPA 1990, Part 2A, if exposure occurs.	Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point; major impact on amenity value or major damage to agriculture or commerce.	Major damage to aquatic or other ecosystems, which **is likely** to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long-term maintenance of the population.	Catastrophic damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Major fish kill in surface water from large spillage of contaminants from site. Highly elevated concentrations of Hazardous or priority substances present in groundwater close to small potable abstraction (high sensitivity). Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).
Medium	Elevated concentrations which **could** result in "significant harm" to human health as defined by the EPA 1990, Part 2A if exposure occurs.	Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce.	Significant damage to aquatic or other ecosystems, which **may** result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population.	Significant damage to crops, buildings or property.	Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions. Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability. Ingress of contaminants through plastic potable water pipes.

Classification	Human Health	Controlled Water	Ecology	Property	Examples
				Structures/ Crops and animals	
Mild	Exposure to human health **unlikely** to lead to "significant harm".	Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce.	Minor or short lived damage to aquatic or other ecosystems, which **is unlikely** to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population.	Minor damage to crops, buildings or property.	Exposure could lead to slight short-term effects (e.g. mild skin rash). Surface spalling of concrete.
Minor	No measurable effects on humans	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.	Repairable effects of damage to buildings, structures and services.	The loss of plants in a landscaping scheme. Discoloration of concrete.

The risk matrix to link the likelihood and consequence is shown in Table B.3.

TABLE B.3 RISK MATRIX

Likelihood:	Unlikely	Low Likelihood	Likely	High Likelihood
Potential Consequence:				
Severe	Moderate/low risk	**Moderate Risk**	**High Risk**	**Very High Risk**
Medium	Low	Moderate/low risk	**Moderate Risk**	**High Risk**
Mild	Very low risk	Low Risk	Moderate/low risk	**Moderate Risk**
Minor	Very low risk	Very low risk	Low Risk	Low Risk

The overall risk definitions are summarised in Table B.4.

TABLE B.4 RISK DEFINITIONS

Risk	Definition
Very Low	It is a low possibility that harm could arise to a designated receptor, but it is likely at worst, that this harm if realised would normally be mild or minor.
Low	It is possible that harm could arise to a designated receptor from identified hazard, but it is likely at worst, that this harm if realised would normally be mild. It is unlikely that the site owner/or occupier would face substantial liabilities from such a risk. Further investigative work (which is likely to be limited) to clarify the risk may be required. Any subsequent remediation works are likely to be relatively limited.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Further investigative work is normally required to clarify the risk and to determine the potential liability to site owner/occupier. Some remediation works may be required in the longer term.
High	Harm is likely to arise to a designated receptor from an identified hazard at the site without remediation action. Realisation of the risk is likely to present a substantial liability to the site owner/or occupier. Investigation is

Risk	Definition
	required as a matter of urgency to clarify the risk. Remediation works may be necessary in the short-term and are likely over the longer term.
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without remediation action OR there is evidence that severe harm to a designated receptor is already occurring. Realisation of that risk is likely to present a substantial liability to be site owner/or occupier. Investigation is required as a matter of urgency and remediation works likely to follow in the short-term.

Annex G - NHBC Risk Register

Annex H - General Limitations

REPORT LIMITATIONS - GROUND AND WATER

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.

2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.

3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.

4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.

6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.

7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.

8. WSP UK Limited does not warrant work / data undertaken / provided by others.

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:

- **i.** The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
- **ii.** Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.

10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.

11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.

12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.

13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.

14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.

15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.

16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.

18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.

19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.

20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.

22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.

24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.

25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.

28. The data is presented and will be compared with assessment criteria.

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