



Galileo 03 Limited

Mynydd Ty-talwyn Energy Park – Environmental Statement Volume III

Appendix 5.1: Preliminary Risk Assessment

Annex C – Site Reconnaissance Information

Project reference: 663870

ANNEX C

SITE RECONNAISSANCE INFORMATION

Photographic Log

Site Walkover Questionnaire

Site Walkover Notes

It should be noted that the site reconnaissance survey was completed in 2023, and was undertaken within the Site boundary that was being considered at that time. The text of this PRA report has been updated to reflect features that are within/outside the current Site boundary (as shown on **Figure 2**), but it should be noted that some of the information displayed within this annex may relate to features that are no longer within the Site boundary. The current boundary is within the area covered by the walkover survey in all instances, so there are no areas for which data was not obtained. The red line shown on some drawings within this annex is the 'developable area' boundary that was being considered in July 2023.

APPENDIX E SITE RECONNAISSANCE PHOTOGRAPHS

Photo no. 1	Date: 13.07.2023	
Southerly view of site		
Description: Elevated view of site, taken north of the site area. View shows fields used mainly for pasture with some blocks of woodland. Woodland located in right of photograph (in straight line) is Craig Yr Aber (Wooded country park).		

Photo No. 2	Date: 13.07.2023	
Easterly view along northern site boundary		
Description: Fields used mainly for pasture with some blocks of woodland. Woodland located in right of photograph is Craig Yr Aber (Wooded country park). Overhead electrical cables and underground gas route run along C-Class Road and continue along the Ogwr Ridgeway.		

Photo No. 3	Date: 13.07.2023	
South-easterly view in Craig yr Aber (Wooded country park)		
Description: Craig yr Aber (Wooded country park) within sites western boundary.		

Photo No. 4	Date: 13.07.2023	
South-westerly view across field with indicative Turbine #8 location		
Description: Turbine #8 Open field with power cables and gas main running across site. (Gas main route unknown). Area relatively level, dipping gently south.		

Photo No. 5	Date: 13.07.2023	
Westerly view across field with indicative Turbine #8 location		
Description: Turbine #8 Open field with power cables running across site. Craig yr Aber (Wooded country park) in distance. Area relatively level, dipping gently south.		

Photo No. 6	Date: 13.07.2023	
Easterly view towards indicative Turbine #7 location		
Description: Turbine #7 Road junction before indicative field location of Turbine #7. Fields used mainly for pasture with some blocks of woodland. Gas main location runs along road. Area relatively level.		

Photo No. 7	Date: 13.07.2023	
North-easterly view across field with indicative Turbine #7 location		
Description: Turbine #7 Fields used mainly for pasture. Area relatively level.		

Photo No. 8	Date: 13.07.2023	
North-westerly view across open field, then view across field with indicative Turbine #6 location		
Description: Turbine #6 Fields used mainly for pasture. Indicative Turbine #6 field location raises up towards the north. Craig yr Aber (Wooded country park) located towards the west.		

Photo No. 9	Date: 13.07.2023	
Southerly view across field with indicative Turbine #6 location (Turbine #5 location in distance).		
Description: Turbine #6 Fields used mainly for pasture. Field dips down towards the south.		

Photo No. 10	Date: 13.07.2023	
Southerly view along field boundary. Indicative Turbine #5 location is in the field on the right (west).		
Description: Turbine #5 Fields used mainly for pasture. Area relatively level and split with field boundaries.		

Photo No. 11	Date: 13.07.2023	
Westerly view along field boundary for indicative Turbine #5 location		
Description: Turbine #5 Fields used mainly for pasture. Area relatively level and split with field boundaries.		

Photo No. 12	Date: 13.07.2023	
North-easterly view across field with indicative Turbine #4 location		
Description: Turbine #4 Fields used for pasture. Area dips down towards the north.		

Photo No. 13	Date: 13.07.2023	
View towards south-western corner of field for indicative Turbine #4 location		
Description: Turbine #4 Fields used for pasture. Some trees line the south-western corner of site. Area rises towards the south.		

Photo No. 14	Date: 13.07.2023	
Easterly view across field with indicative Turbine #3 location		
Description: Turbine #3 Fields used for pasture. Area rises towards the east. Southern boundary of field follows the C-Class Road and Ogwr Ridgeway walking route.		

Photo No. 15	Date: 13.07.2023	
Westerly view across field with indicative Turbine #3 location		
Description: Turbine #3 Fields used for pasture. Area dips down towards the west and undulates slightly.		

Photo No. 16	Date: 13.07.2023	
Northerly view across field with indicative Turbine #2 location		
Description: Turbine #2 Fields used for pasture. A stone wall with a gap in between splits the field. Area dips down towards the north and undulates slightly.		

Photo No. 17	Date: 13.07.2023	
North-easterly view across field with indicative Turbine #2 location		
Description: Turbine #7 View of stone wall with a gap in between splits the field. Fields used for pasture. Area dips down towards the north and undulates slightly.		

Photo No. 18	Date: 13.07.2023	
Easterly view across field with indicative Turbine #1 location		
Description: Turbine #8 Field used for crops. Field is relatively level and drops slightly towards the north.		

Photo No. 19	Date: 13.07.2023	
Northerly view across field with indicative Turbine #1 location		
Description: Turbine #8 Field used for crops. Field is relatively level and drops slightly towards the north.		

Photo No. 20	Date: 13.07.2023	
South-westerly view into woodlands at the location of Adit 287185-001.		
Description: Adit-001 View into wooded area, with possible Adit site entrance and tank structure.		

Photo No. 21	Date: 13.07.2023	
Southerly view of area west to Adit 287185-001.		
Description: Adit-001 Evidence of ground movements in land adjacent to Adit -001. Unknown if associated with mining works or due to general slop stability.		

Photo No. 22	Date: 13.07.2023	
Northerly view into woodlands at the location of Adit 287185-002.		
Description: Adit-002 Woodland sitting at low elevation, in approximate direction of Adit 287185-002 (based on GPS co-ordinates).		

Photo No. 23	Date: 13.07.2023	
Northerly view into woodlands at the location of Adit 287185-002.		
Description: Adit-002 No associated mine structures were identified within the vicinity of Adit -002, due to dense woodland and the area sitting at a lower elevation. Wooded area fenced-off.		



Site Walkover Questionnaire

Date: 13.07.2023

Project Name: Mynydd ty-Talwyn Wind and Solar

Project Number: 323220

Site Engineer: Rachel Hagan

Weather conditions: Overcast with periods of showers and sunshine.

A. Current Site Use

A1. What are the main land uses on Site?

Land cover within the Site consists of mainly pasture with some blocks of woodland. There are a small number of farm buildings at the Site.

The largest area of woodland runs within and along the Site eastern boundary, forming the Criag Yr Aber Woods, Country Park.

There are a number of Public Rights of Way (PRoW) which pass through the Site. The Ogwr Ridgeway Walk passes through the Site in a roughly east-west direction.

There are a number of landowners involved in the Project, a number of whom have tenants and/or employees working across the Site. Early landowner engagement in advance of any Site work is imperative.

A2. What are the current land uses adjacent to Site.

The Site is located approximately 6km East of Port Talbot and 3.5km north of Bridgend.

Adjacent land use consists mainly pasture with some blocks of woodland. There are operational (small-scale) wind turbines located towards the south of the Site.

A3. Historic Site activities

Historically the Site has been used for farming practices. There is evidence of historical mining activity across the Site.

B. Access Constraints

B1. General Access Constraints?

No

B2. Access constraints details

The main C-Class Road that crosses the Site runs from the north-western corner of the Site and heads in a south-easterly direction before entering Fordd-Y-Gyfraith, immediately east of Wiggleys Fun Farm (and joins on to the main road 'New Road'). Another C-road runs north-south through Site, near the western boundary, joining New Road in the South.

Both C-roads leading of New Road have a steep incline. These rural lanes provide access to the Site. Standard motor vehicles can navigate through this lane.

Indicative turbine locations can be reached by foot only. 4x4 vehicles would be required to cross fields if drive-on access required.

B3. Are there any areas of the Site that could not or were not entered during the walkover?

All Indicative turbine locations could be accessed on foot.

The two Adit were located in woodland surrounded by a fence with barbed wire. These areas could only be observed at the fence perimeter. However, a site entrance (and possible tank structure) could be seen within the vicinity of Adit -001. No associated mine structures were identified within the vicinity of Adit -002, due to dense woodland and the area sitting at a lower elevation.

B4. Are there any access constraints for the SI Phase?

Direct vehicle or machinery access to Indicative turbine locations would require careful consideration, as access is across fields. Constraints include general access along C-Roads with heavy machinery; field gate widths and uneven/soft ground.

C. Physical Characteristics

C1. Is the Site level?

The Site has variable levels. The majority of indicative turbine locations are placed at the highest points within field boundaries and are generally flat with some sloping gradients across Site. However, for example, turbine location #3 and #4 have notable steeper gradient across Site.

C2. Is there any evidence of subsidence, landslip or slope erosion?

Some evidence of slope erosion at some of the lowest parts of field boundaries. Some notable landslides (slumps) that may be associated with mining works around the two Adits.

Some gullying with water runoff in some fields.

C3. Are there any changes in level between the Site and adjacent Site?

The Site and adjacent levels have variable levels. *The C-Class Road that crosses the Site runs from the north-western corner of the Site and heads in a south-easterly direction generally follows the highest part of the valley. The land surrounding land drops and then rises again at various locations.*

C4. Percentage of Soft / hard Cover

All Indicative turbine locations are located on soft cover.

C5. Cover details

Fields used for crops or pasture.

The ground surface is generally uneven and undulates from use for crops and pasture and from vehicle movements (tractor), causing ruts predominantly near gate accesses.

D. Environmental Characteristics**D1. Is there any vegetation on Site?**

Site consists of mainly pasture with some blocks of woodland. Some hedges form field boundaries.

D2. Evidence of Vegetation Stress

Not identified.

D3. Is there any evidence of invasive species being present on Site?

None identified.

D4. Is there any evidence of invasive species being present on adjacent Sites (within 10m of the Site boundary)

Not identified.

D5. Site visit in dormancy period (Oct-Apr)?

No – Site visit 13.07.2023

D6. Are there any surface feature on Site?

Some streams and drainage ditches located across Site.

D7. Are there any surface water features within 250m off Site?

Additional streams, drainage ditches and ponds located off Site.

D8. Visual evidence of contamination of surface waters

Not identified.

D9. Where does the Site drain to?

Site drains to lower elevations and collects in streams/ponds.

D10. Site Drainage Information

Some drainage ditches noted.

D11. Site Outfall Information

Not identified.

E. Structure and Services

E1. Are there any buildings on Site?

There are a small number of farm buildings at the Site.

E2. Any evidence of gas protection measures in buildings?

Not applicable / Not identified.

E3. Are there any buried services present?

Yes - Evidence of a gas route was noted along the C-Class Road and continuing along the Ogwr Ridgeway west.

E4. Are there any over head services present on or adjacent to Site?

Yes – Power cables run across sections of site (e.g., parallel to C-Road that runs from the north-western; and e.g., across field of indicative location of Turbine #8)

It is recommended that a full utility survey report is requested.

E5. Are there any underground structure present on or adjacent to Site?

On Site - Two adits were picked up in a coal mining report. **See B3.**

Adjacent to Site - Not identified.

F. Geotechnical Considerations

F1. Is there any evidence of damage to existing building structures on Site?

There are a small number of farm buildings at the Site.

No evidence of damage from geotechnical issues were identified.

F2. Are there any remains of building structures present on or adjacent to Site?

Not identified.

F3. Are there any retaining walls present on or adjacent to Site?

Not identified.

F4. Are there any abrupt changes in ground level present on or adjacent to Site?

Variable Site level present on and adjacent to Site. Some abrupt ground levels noted, namely near the adits. **See C2.**

F5. Are there any potentially unstable slopes/ exposed ground present on or adjacent to Site?

Not identified. See above.

F6. Are there any mature trees on Site?

Yes - blocks of woodland are located across Site.

The largest area of woodland runs within and along the Site eastern boundary, forming the Criag Yr Aber Woods, Country Park.

F7. Is there any visual evidence of infilled basements on Site?

Not identified.

G. Potential Evidence for Contamination**G1. Is there any potentially hazardous materials storage and use on Site?**

Not identified.

G2. Is there any waste storage on Site?

Not identified.

G3. Is there any fly tipping / litter on Site?

In laybys along the C-Class Roads, some evidence of fly tipping noted, but located far from indicative turbine locations.

G4. Are there any electricity sub stations / transformers on or near Site?

Not identified.

G5. Is there any evidence for ACM on Site?

Not identified. (Possibly associated with small number of farm buildings at the Site).

G6. Is there any visual evidence of potential contamination on Site?

Not identified.

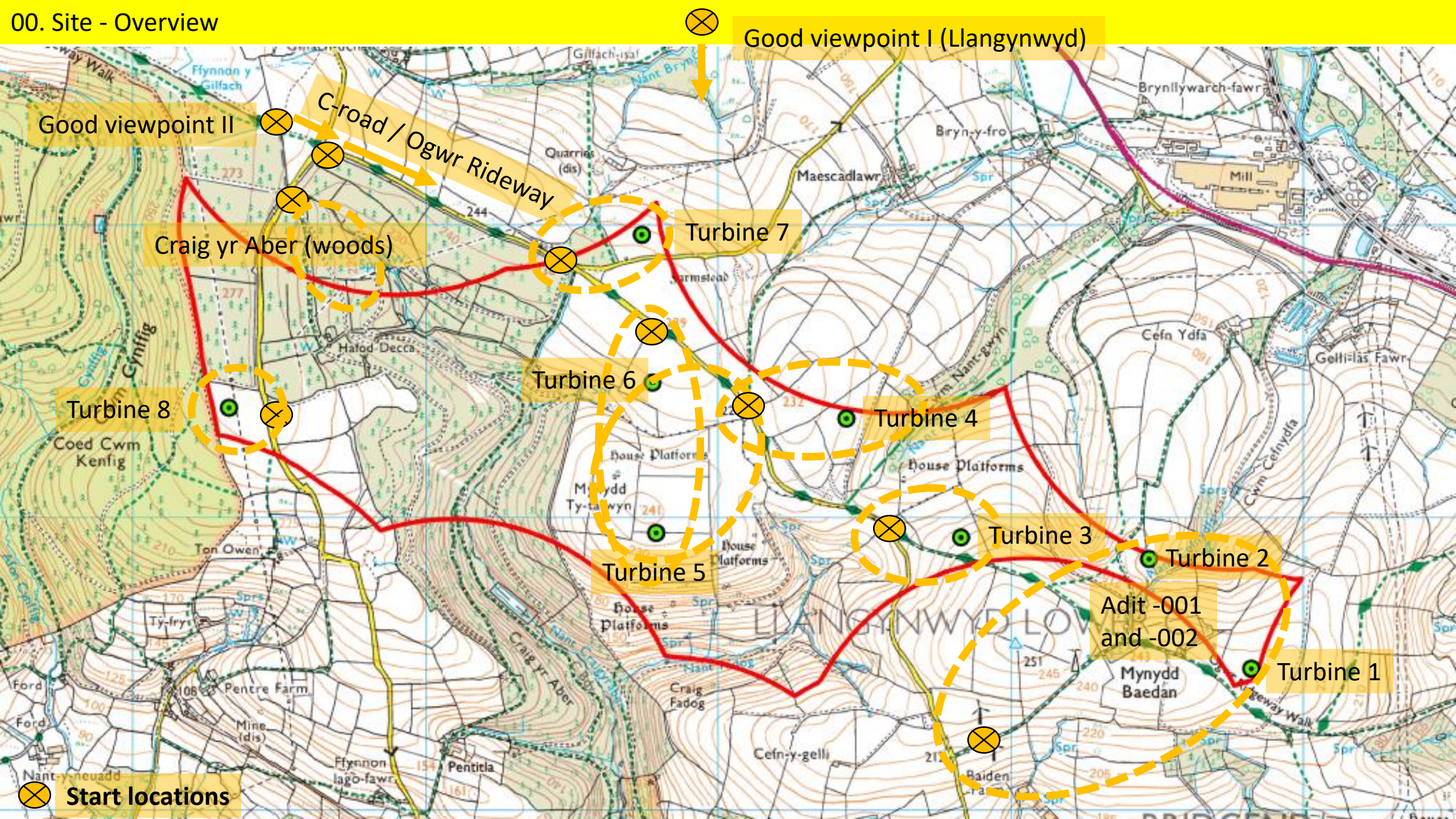
G7. Is there any visual evidence of potential contamination on adjacent Sites?

Not identified.

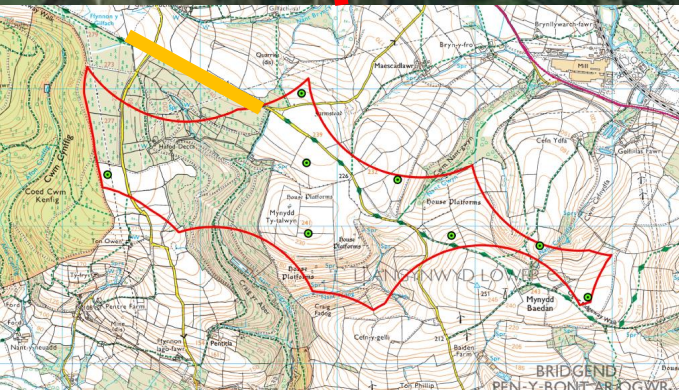
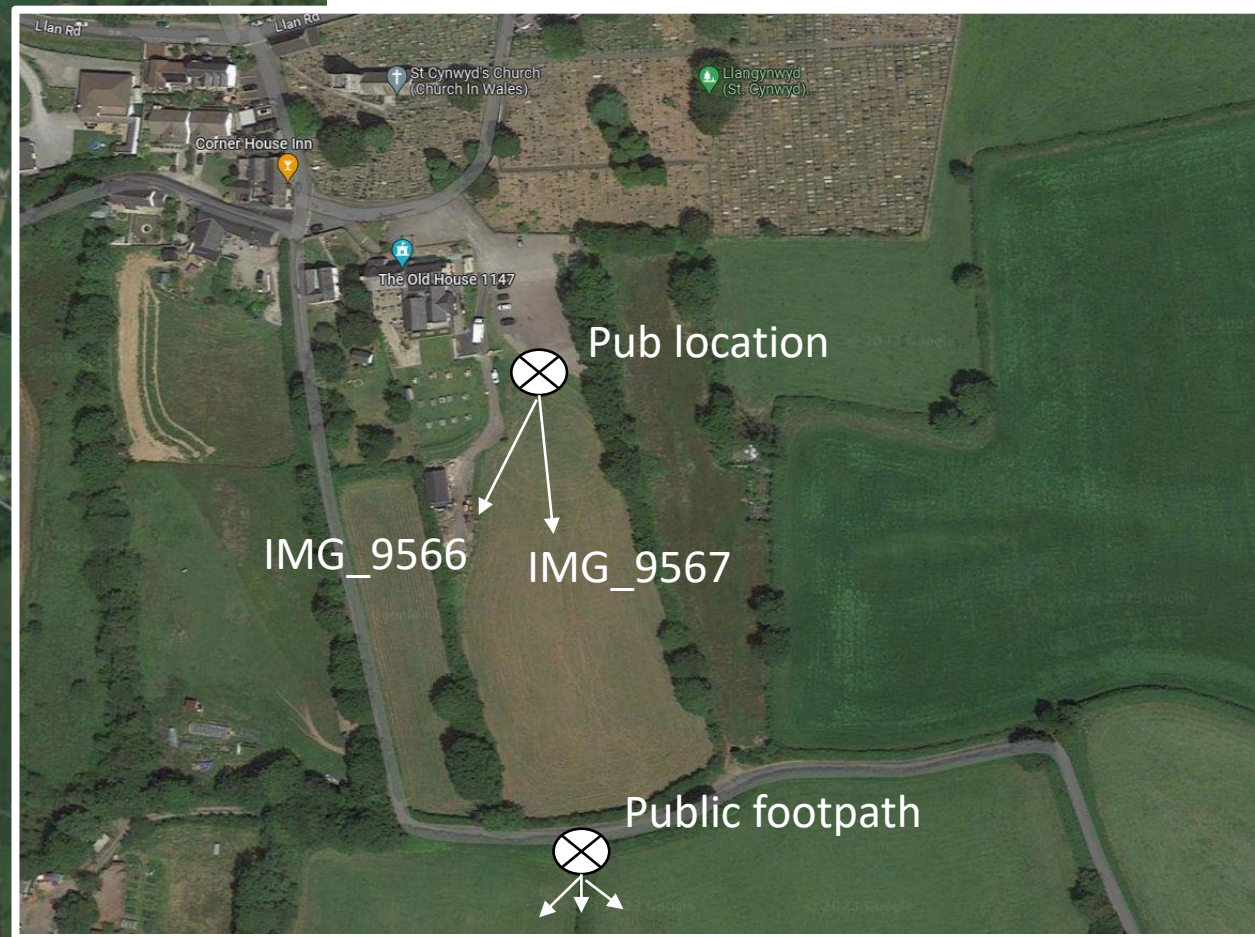
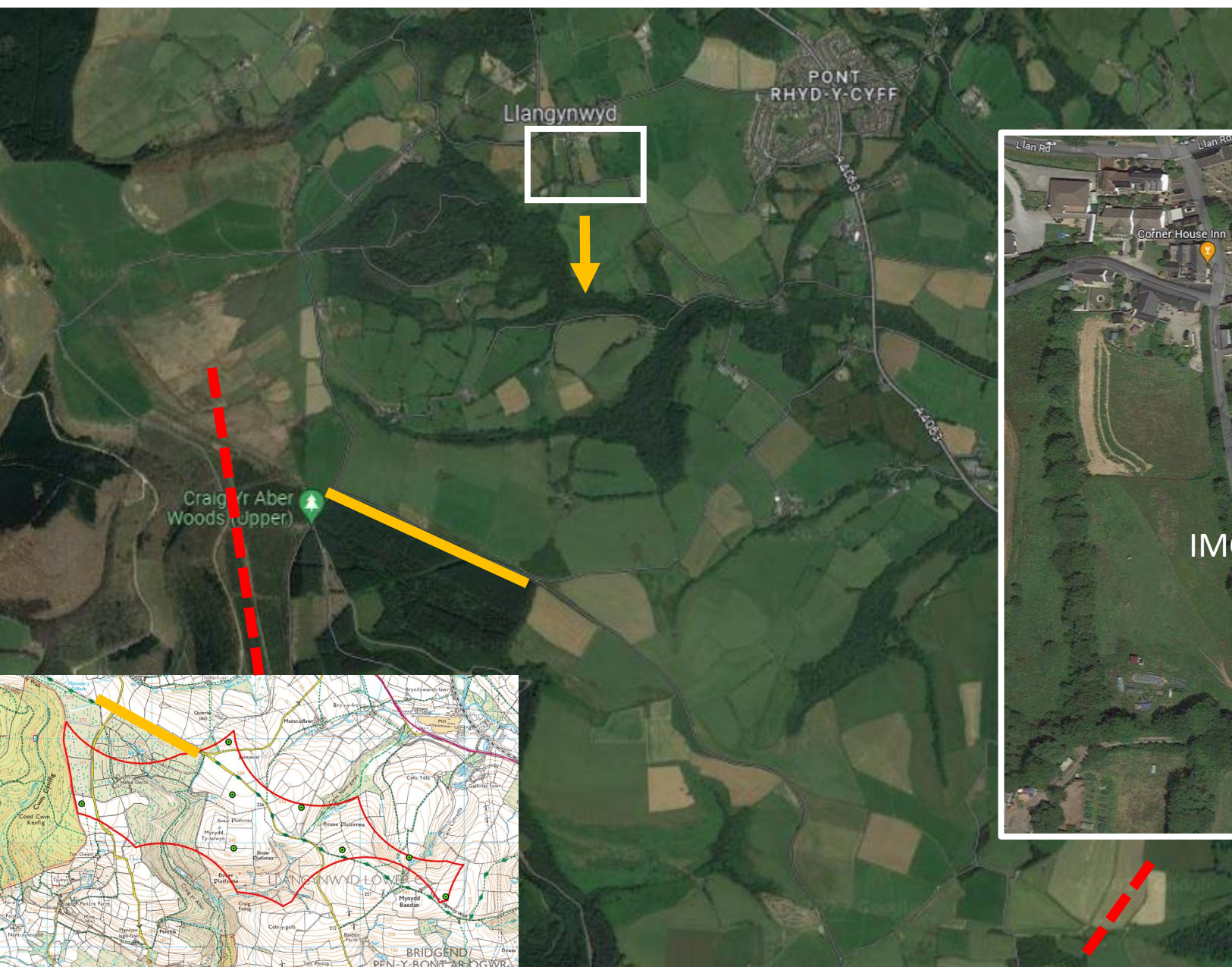


SITE WALKOVER NOTES

00. Site - Overview



01. Good viewpoint I - Llangynwyd



Pub location
IMG_9567
(south)



Pub location
IMG_9566
(South-westerly)



Public footpath
IMG_9571

(South)

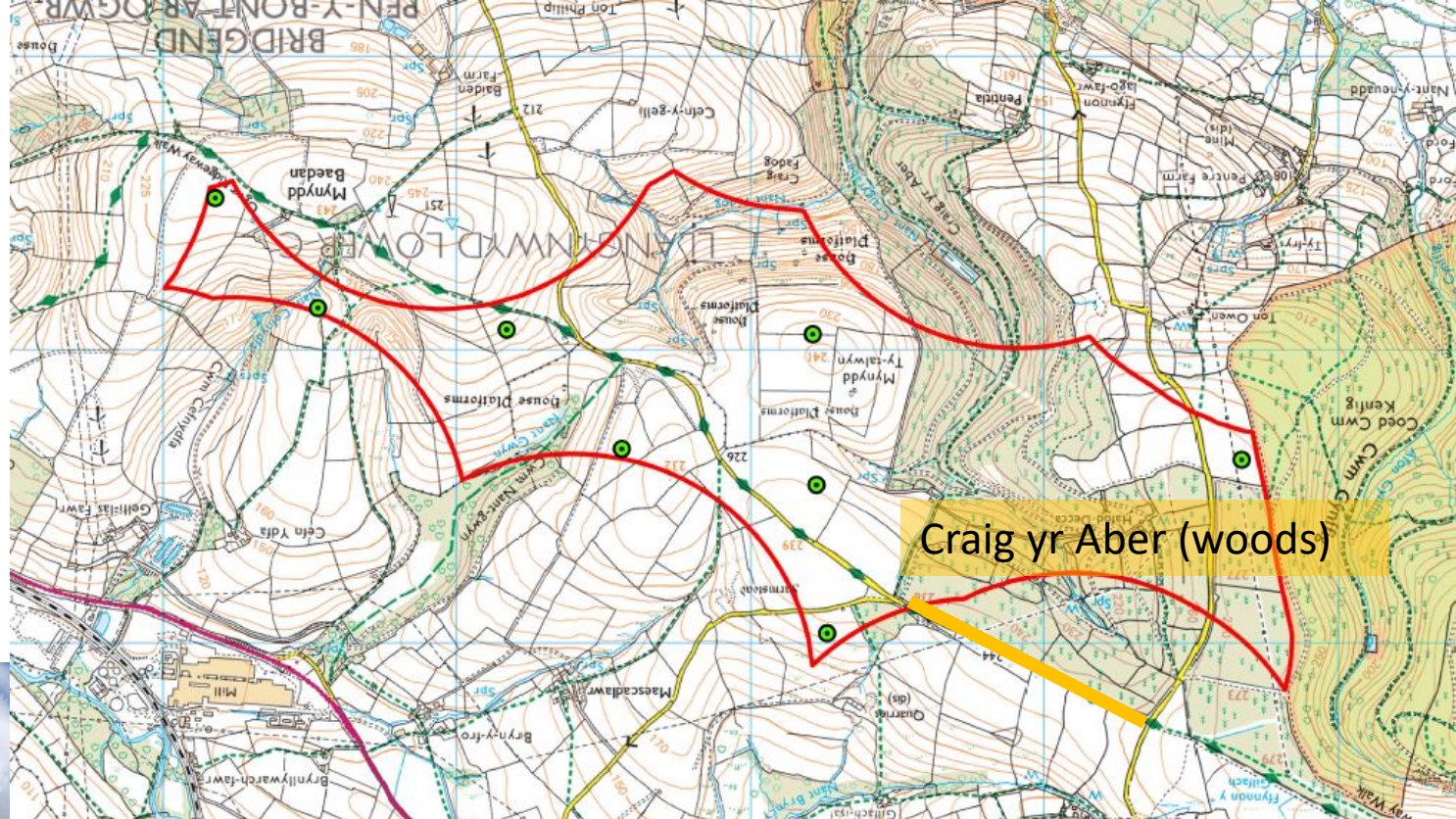


Public footpath
IMG_9590

(South)



Public footpath (South)
IMG_9590

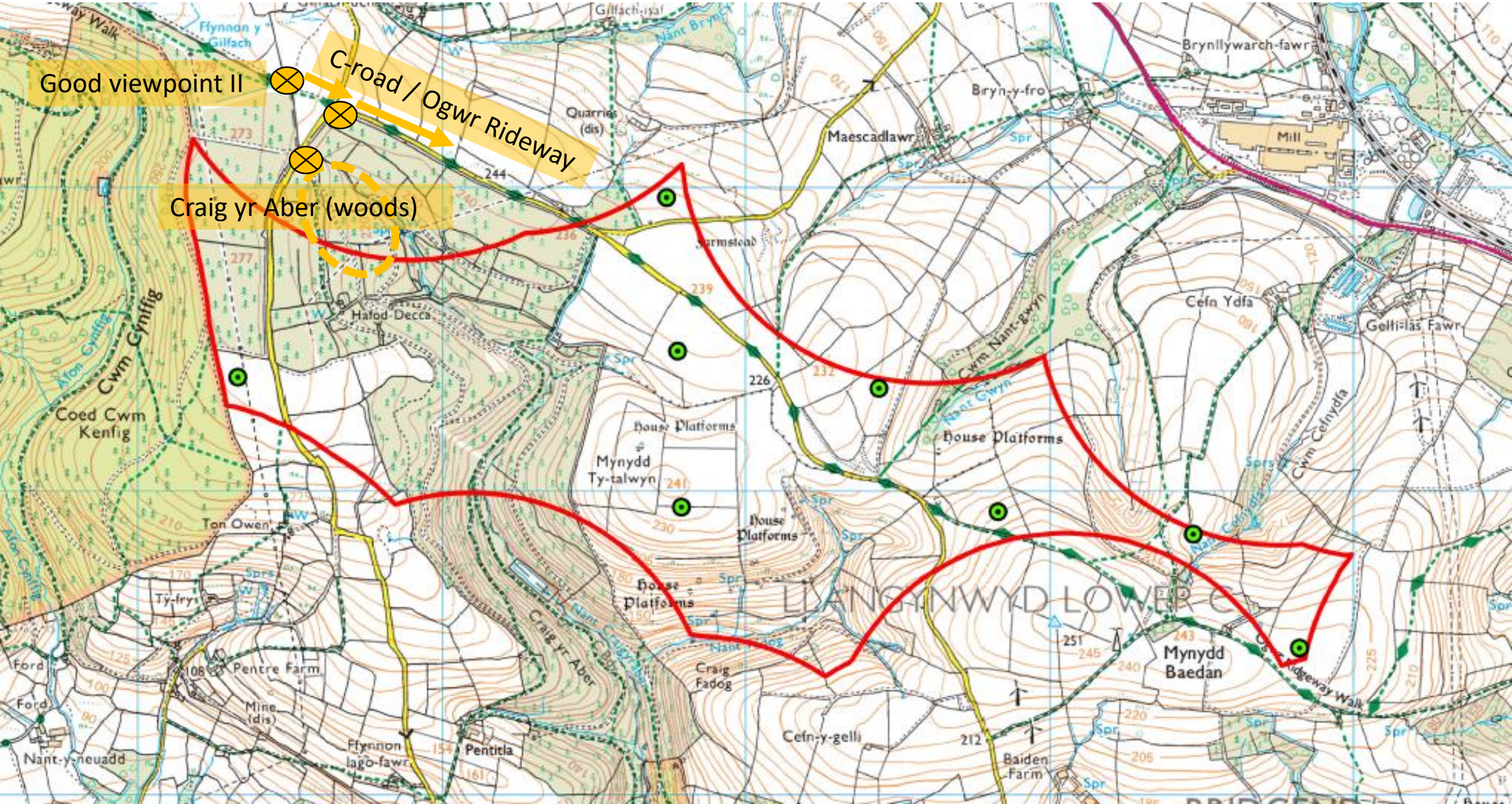


Public footpath

IMG_9576; IMG_9575; IMG_9574; IMG_9573; IMG_9572



02. Good viewpoint II & C-road / Ogwr Rideway (eastly view) & Woods



C-road / Ogwr Rideway
IMG_9603; IMG_9601; IMG_9600; IMG_9685; IMG_9686; IMG_9687



Good viewpoint II
IMG_9641; IMG_9629



Good viewpoint II
IMG_9635

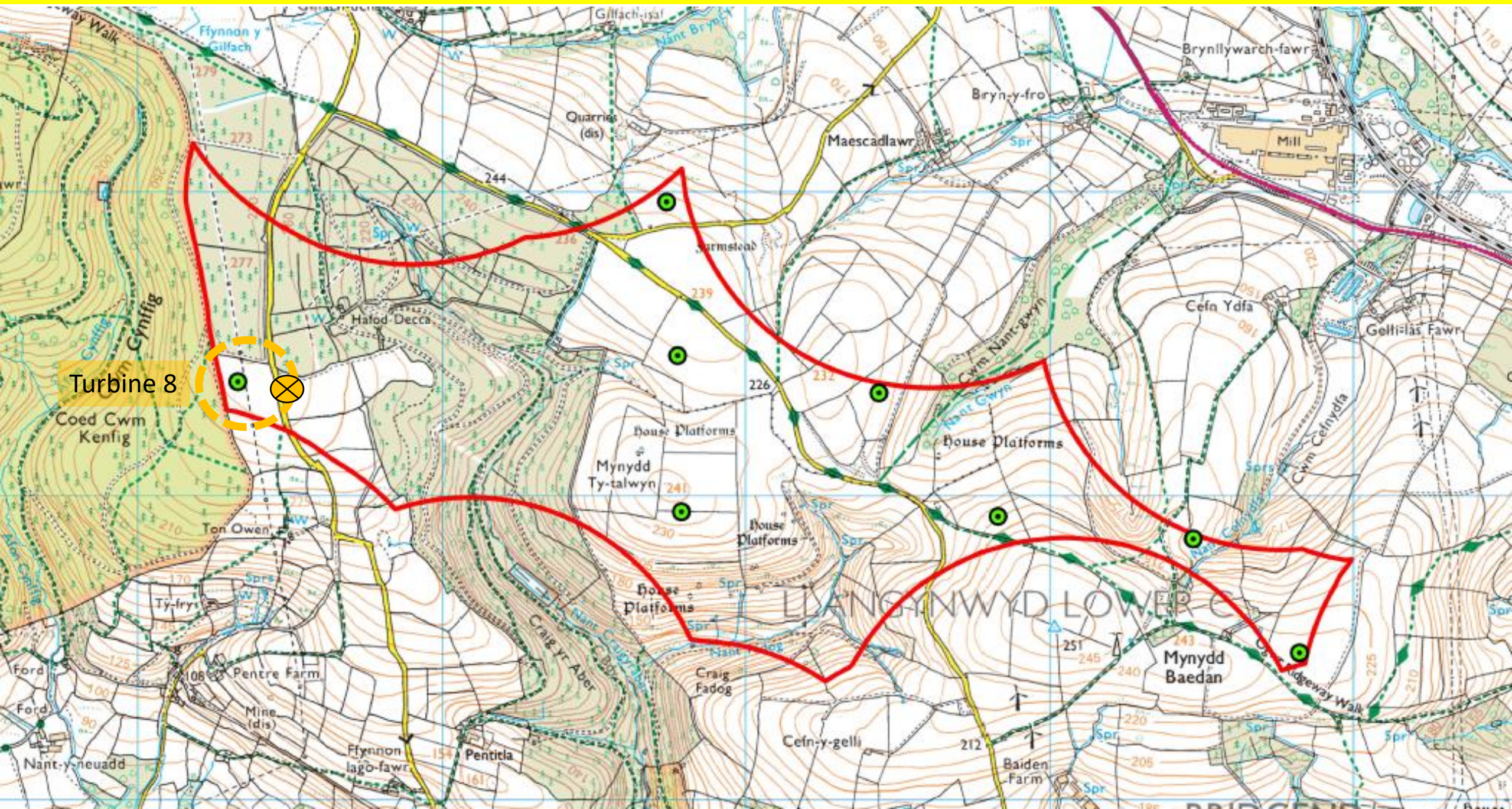


Craig yr Aber (woods)

IMG_9642; IMG_9643; IMG_9649; IMG_9646; IMG_9648; IMG_9647; IMG_9644



03. Turbine 1

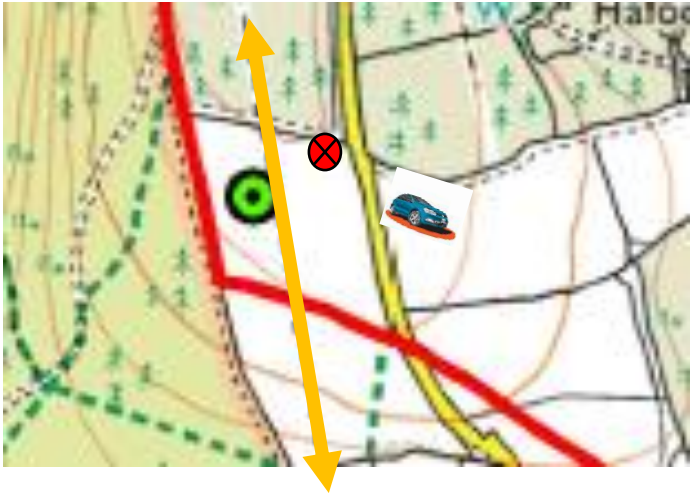


Turbine 8
IMG_9654

(north)



Turbine 8
IMG_9656; IMG_9660; IMG_9663



Turbine 8
IMG_9669; IMG_9667; IMG_9678



Turbine 8
IMG_9676; IMG_9677



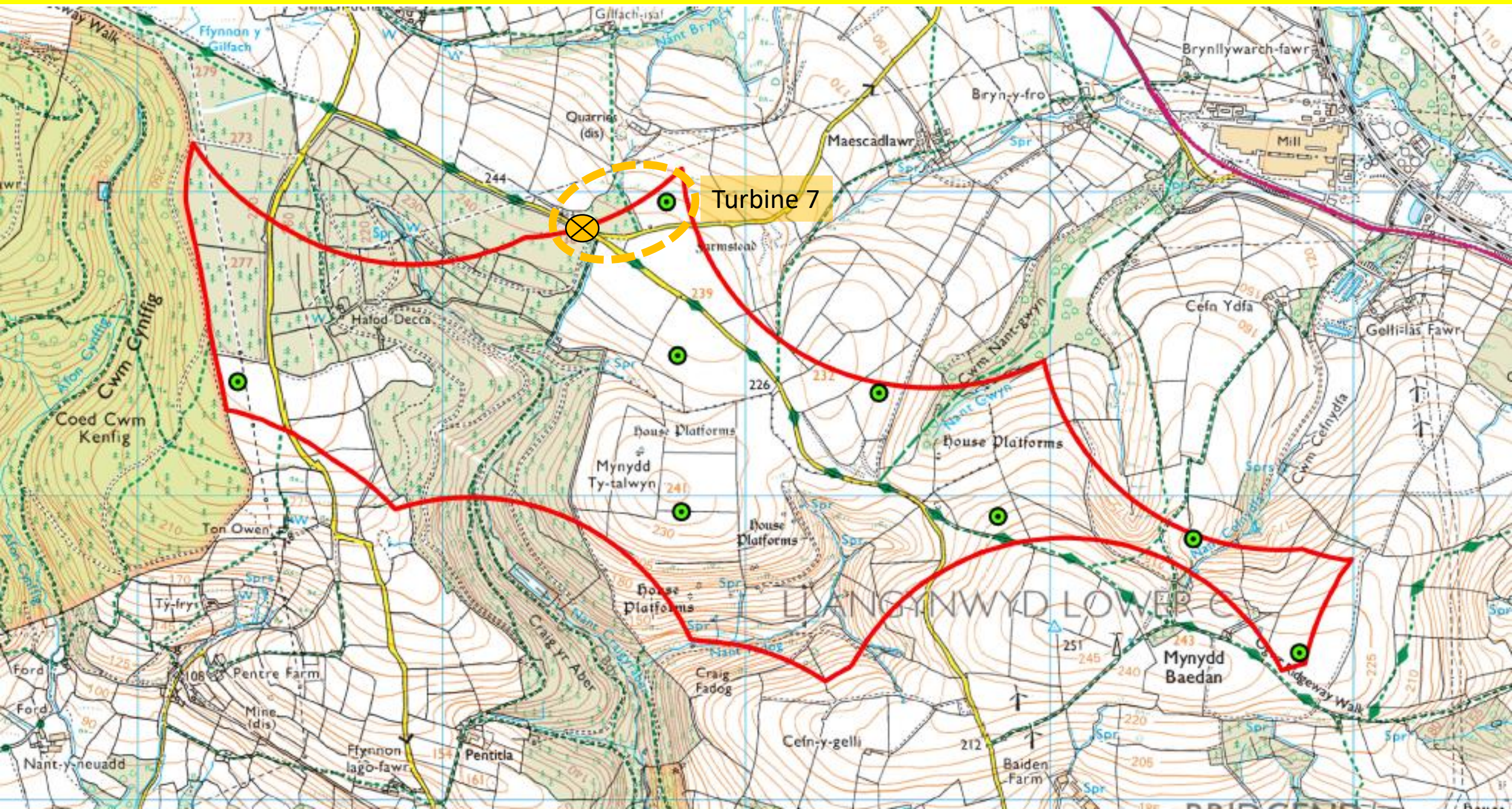
Turbine 8
IMG_9680; IMG_9682; IMG_9681



Turbine 8
IMG_9654; IMG_9679

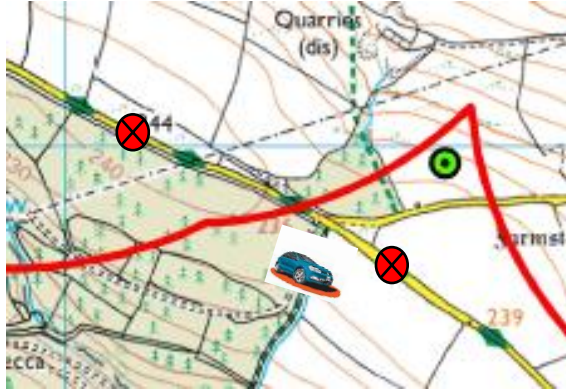


04. Turbine 7



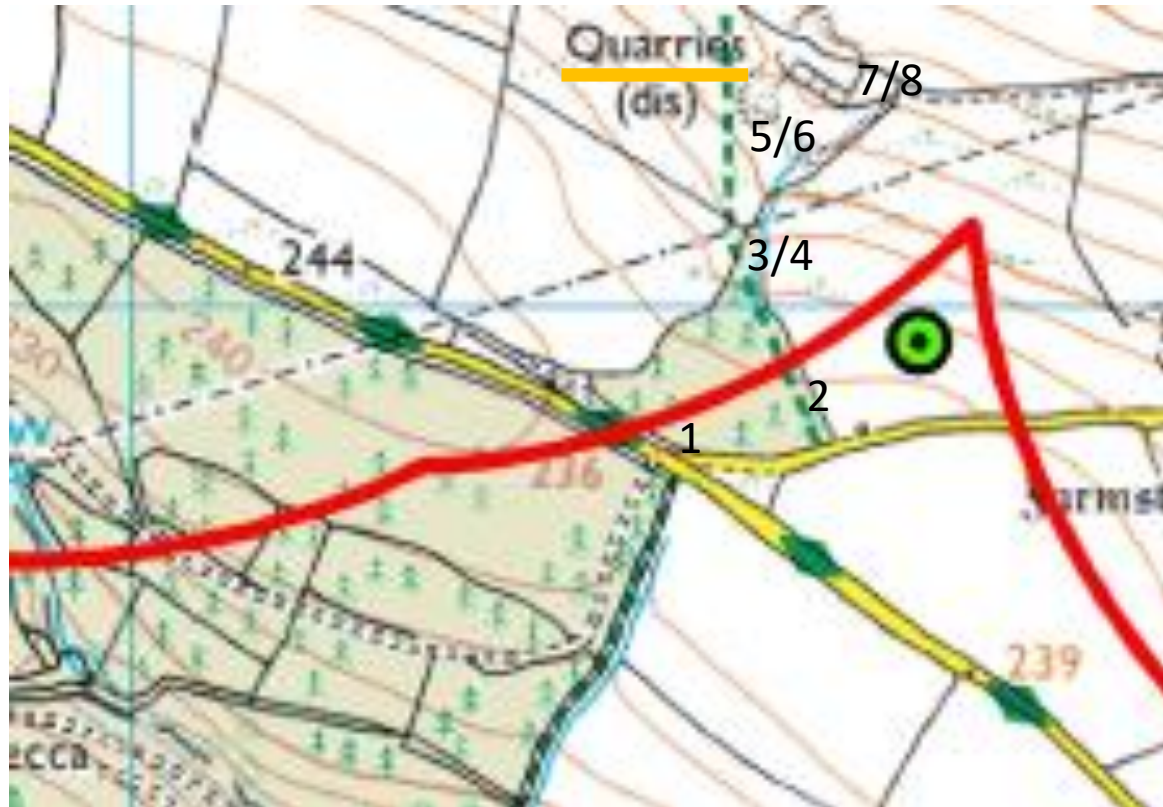
Turbine 7

IMG_9699; IMG_9699; IMG_9697;
IMG_9701; IMG_9702

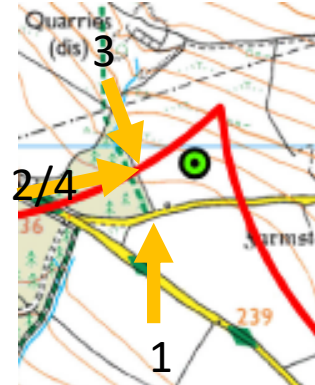


Turbine 7

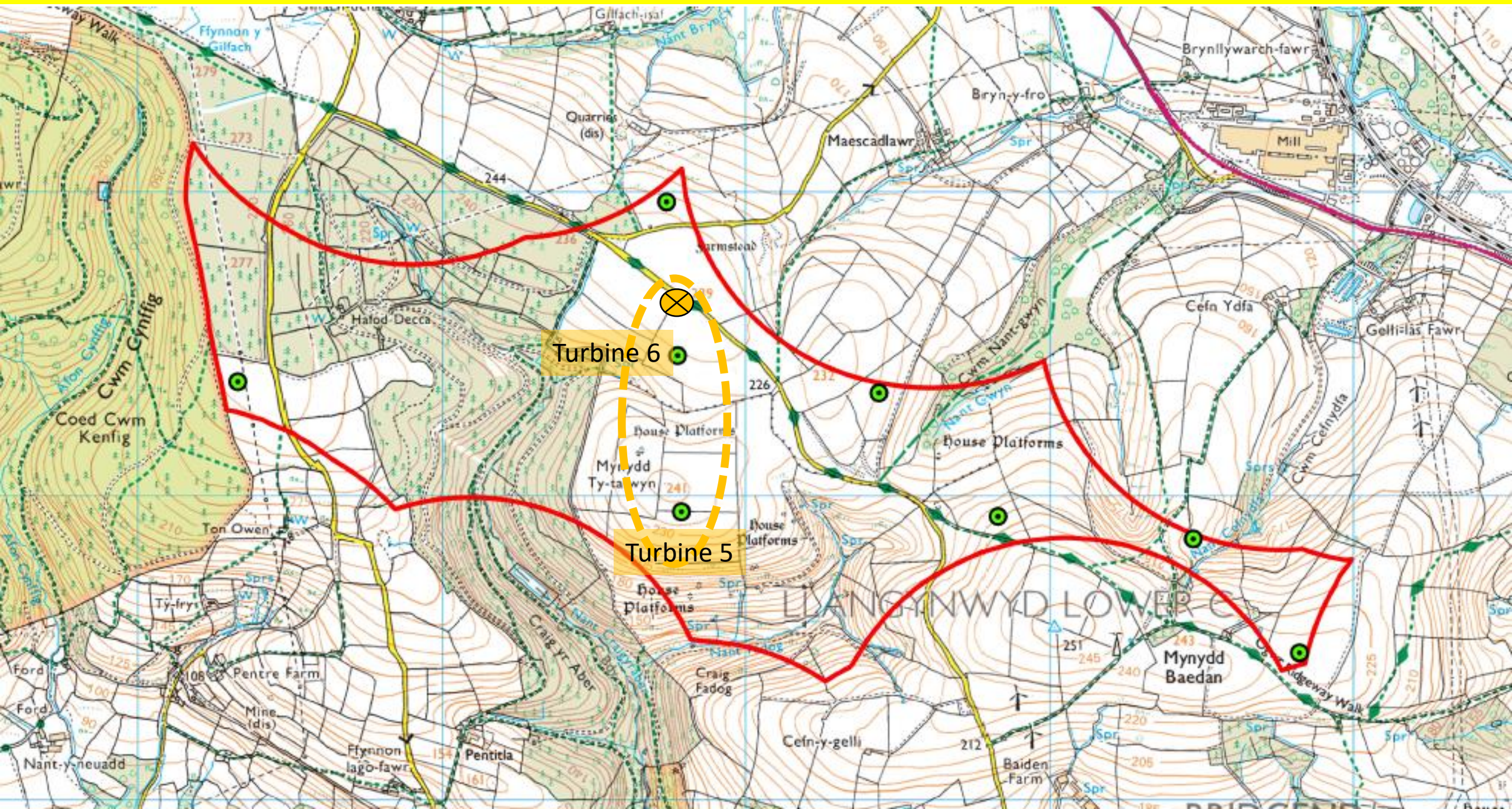
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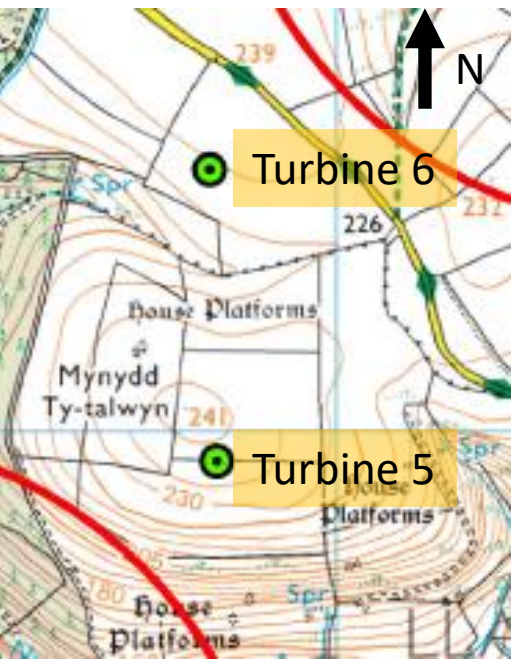
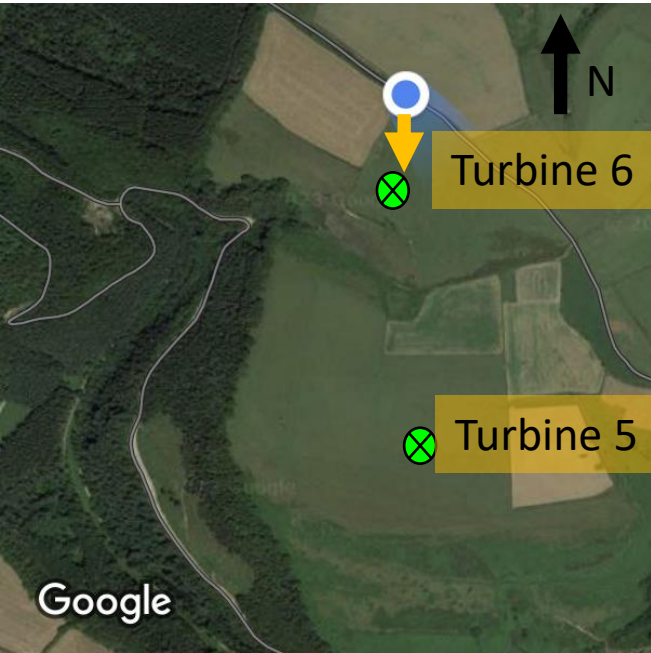
Turbine 7
IMG_9703; IMG_9720; IMG_9722; IMG_9721



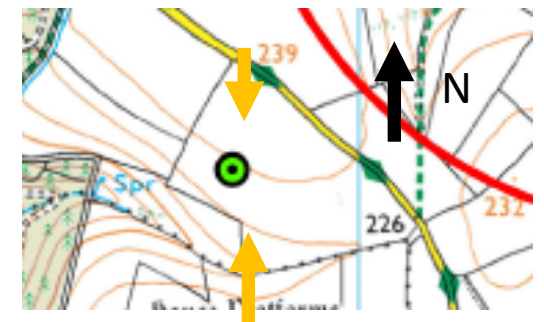
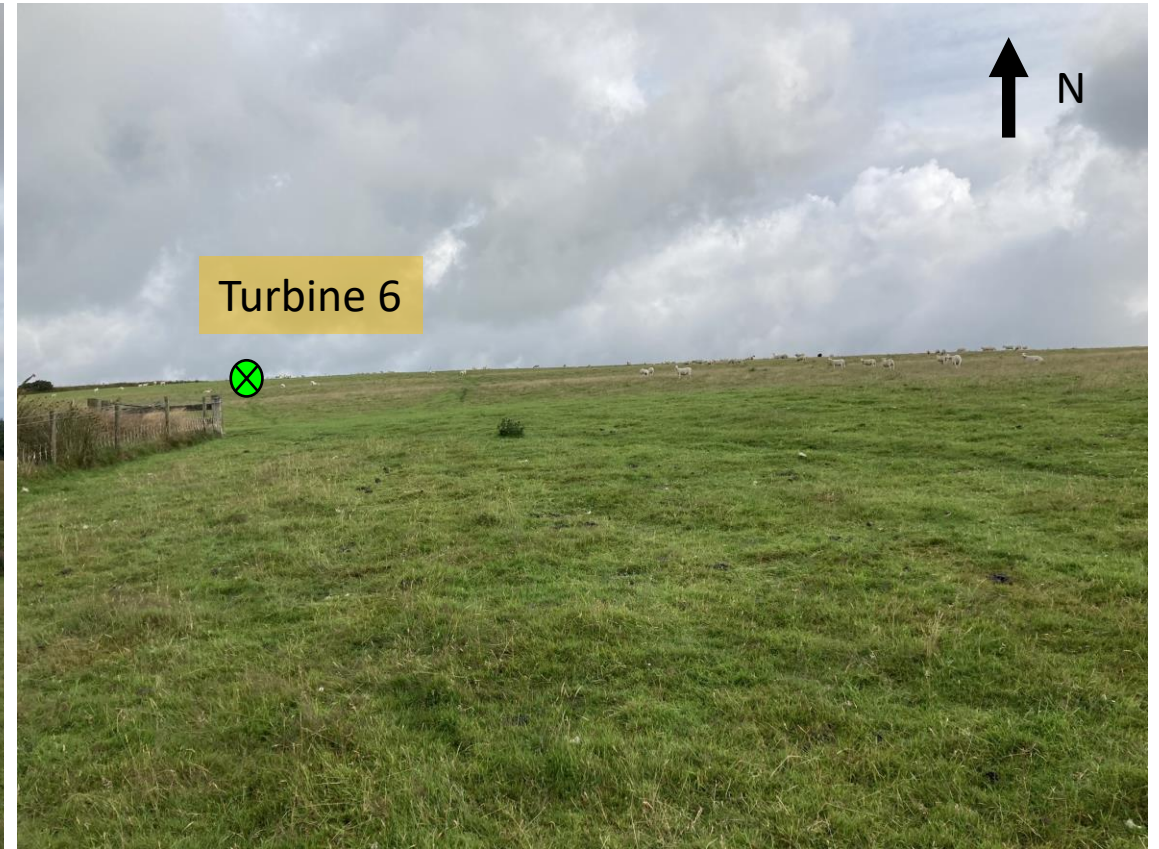
05. Turbine 6 (& 5)



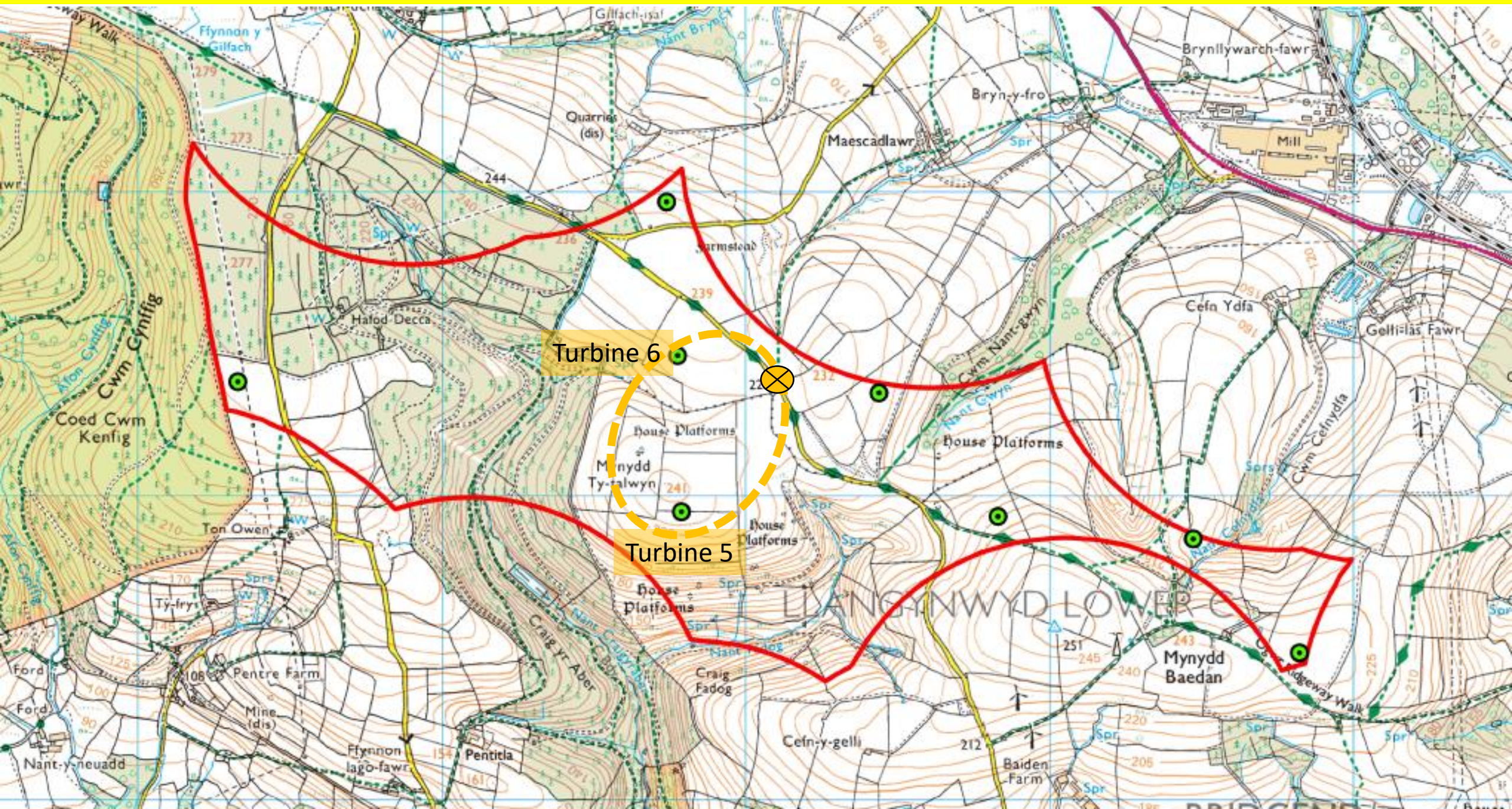
Turbine 6
IMG_9724; IMG_9730



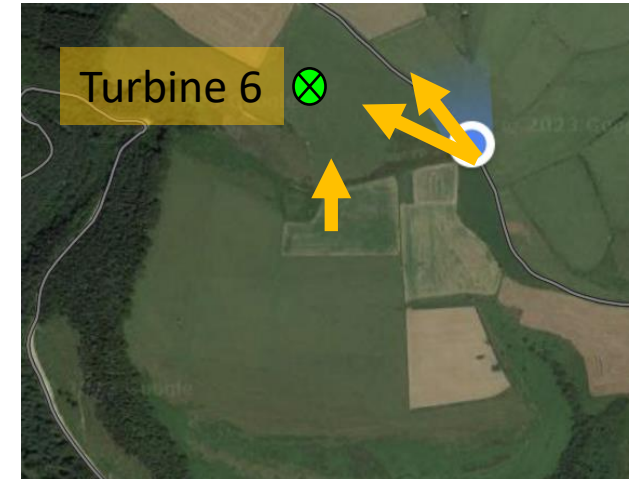
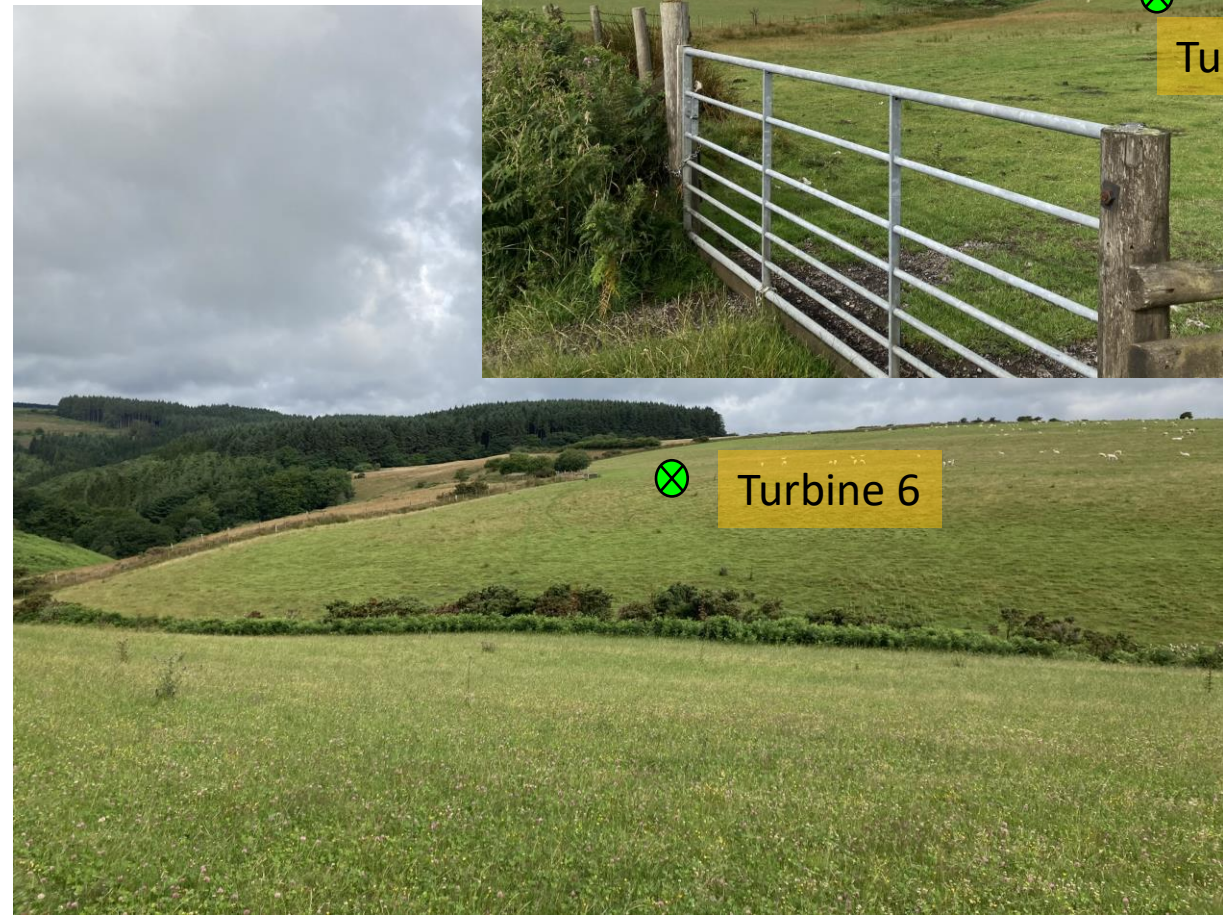
Turbine 6
IMG_9736; IMG_9743



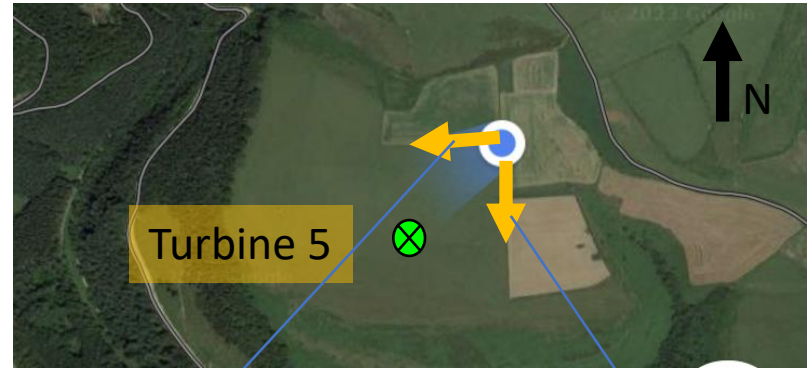
06. Turbine 5 (& 6)



(Turbine 6)
IMG_9748; IMG_9749; IMG_9751; IMG_9757



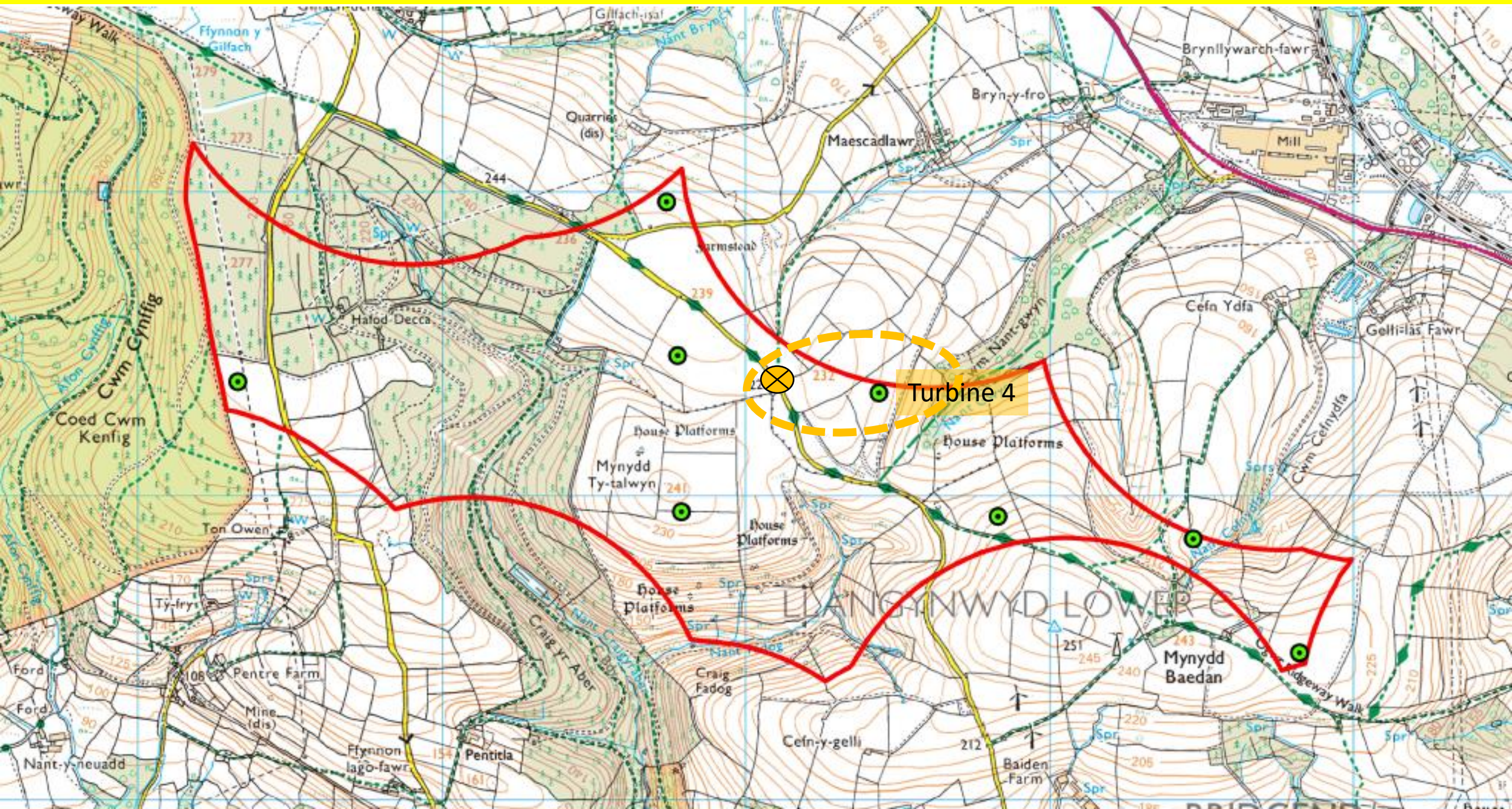
Turbine 5
IMG_9771; IMG_9772; IMG_9773



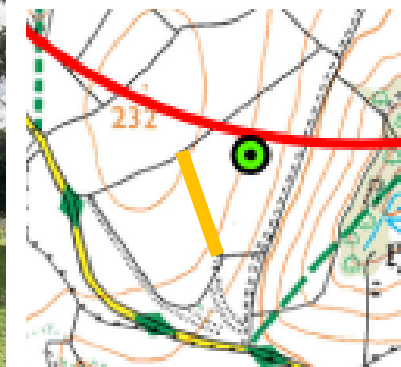
Turbine 5
IMG_9780



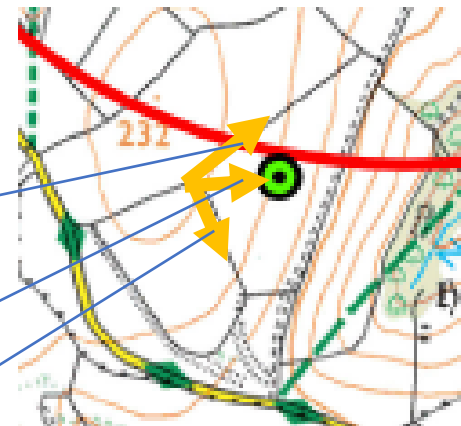
07. Turbine 4



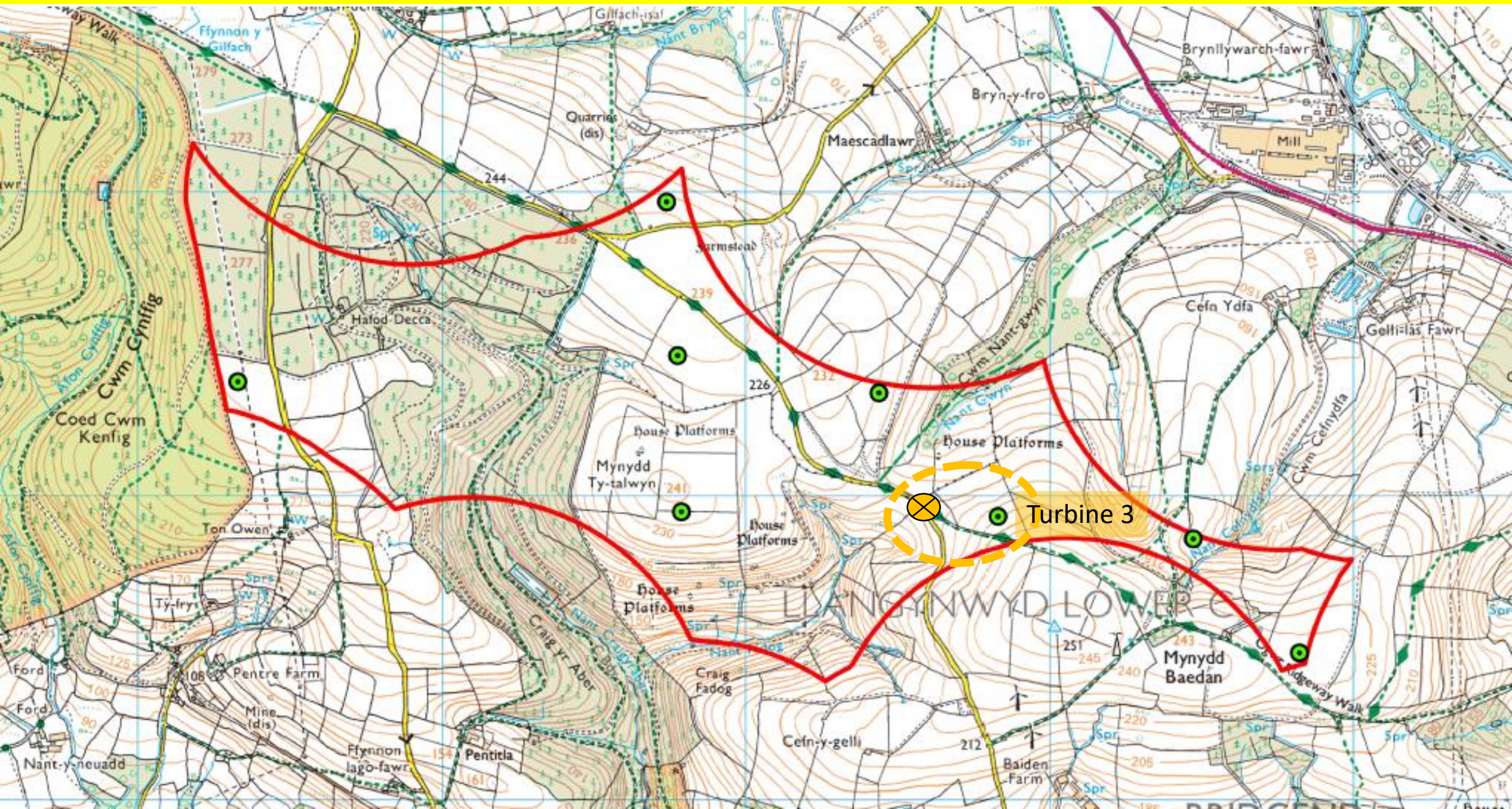
Turbine 4
IMG_9794; IMG_9795; IMG_9800; IMG_9802



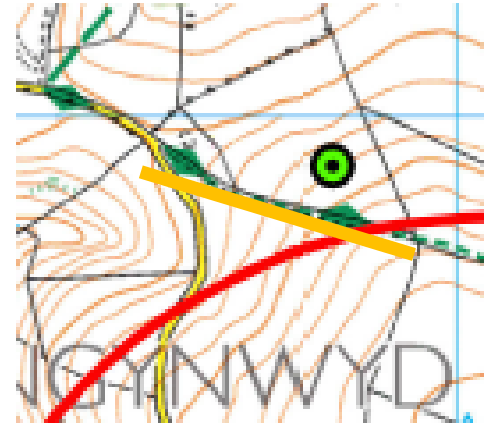
Turbine 4
IMG_9803; IMG_9804; IMG_9805



08. Turbine 3

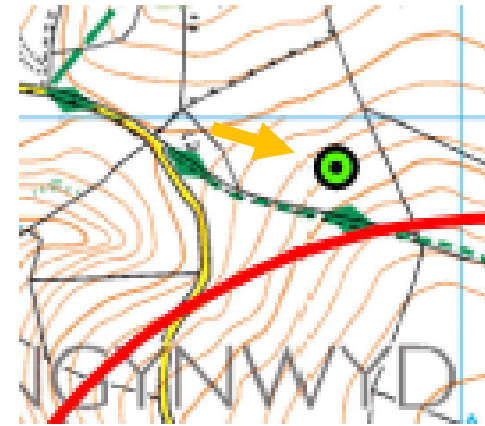


Turbine 3
IMG_9835; IMG_9843; IMG_9844

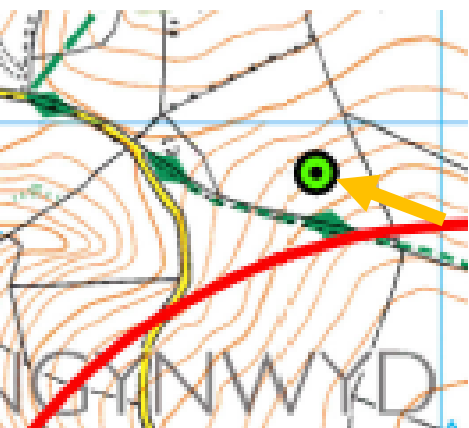


Turbine 3

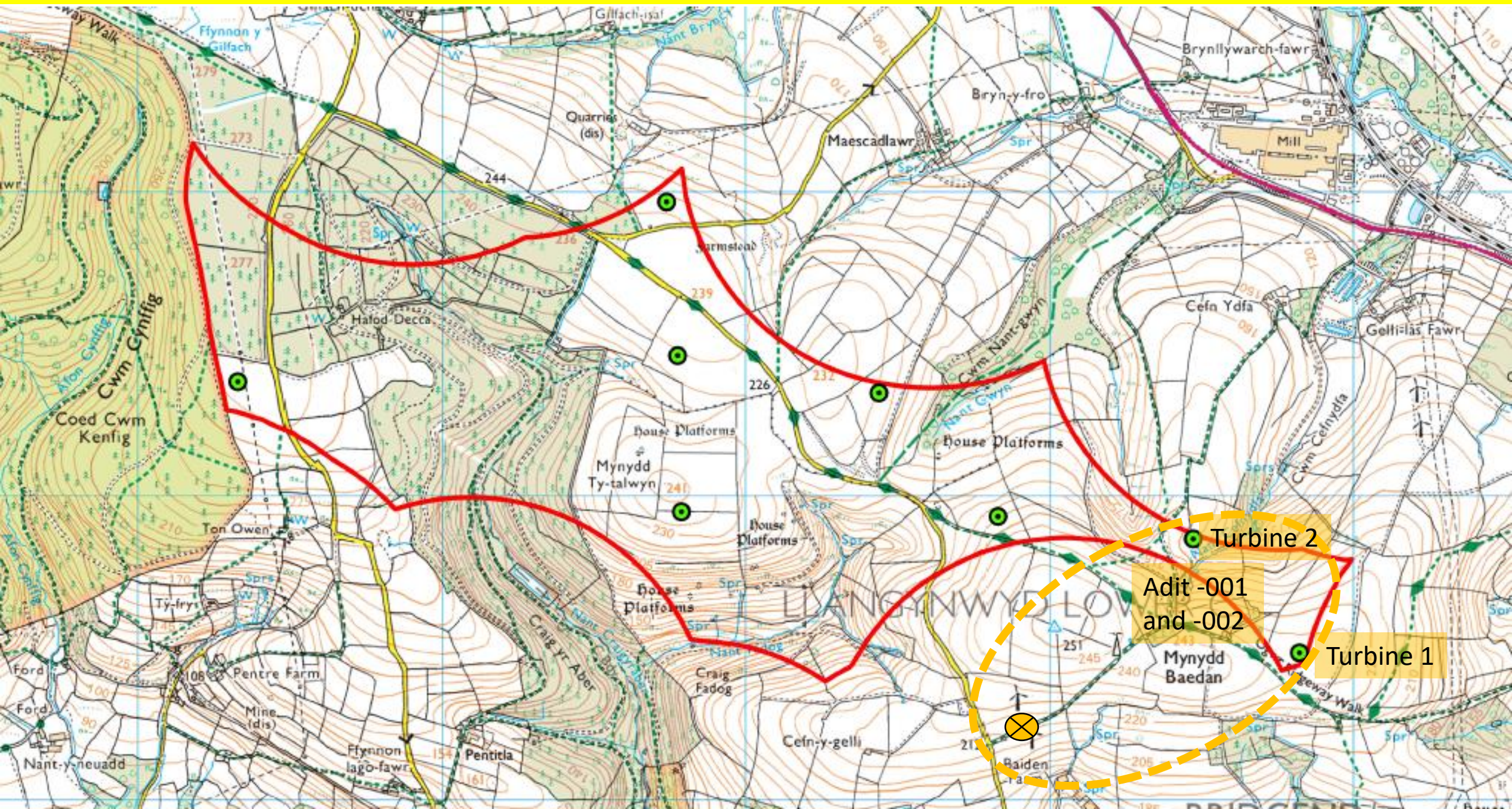
IMG_9848; IMG_9849



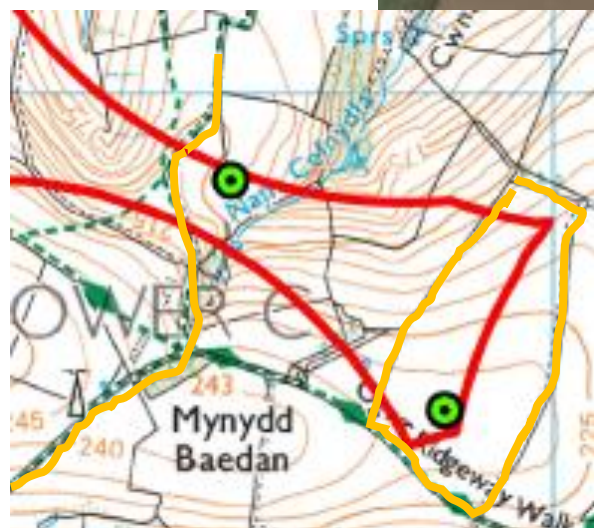
Turbine 3
IMG_9854; IMG_9855



09. Turbine 2



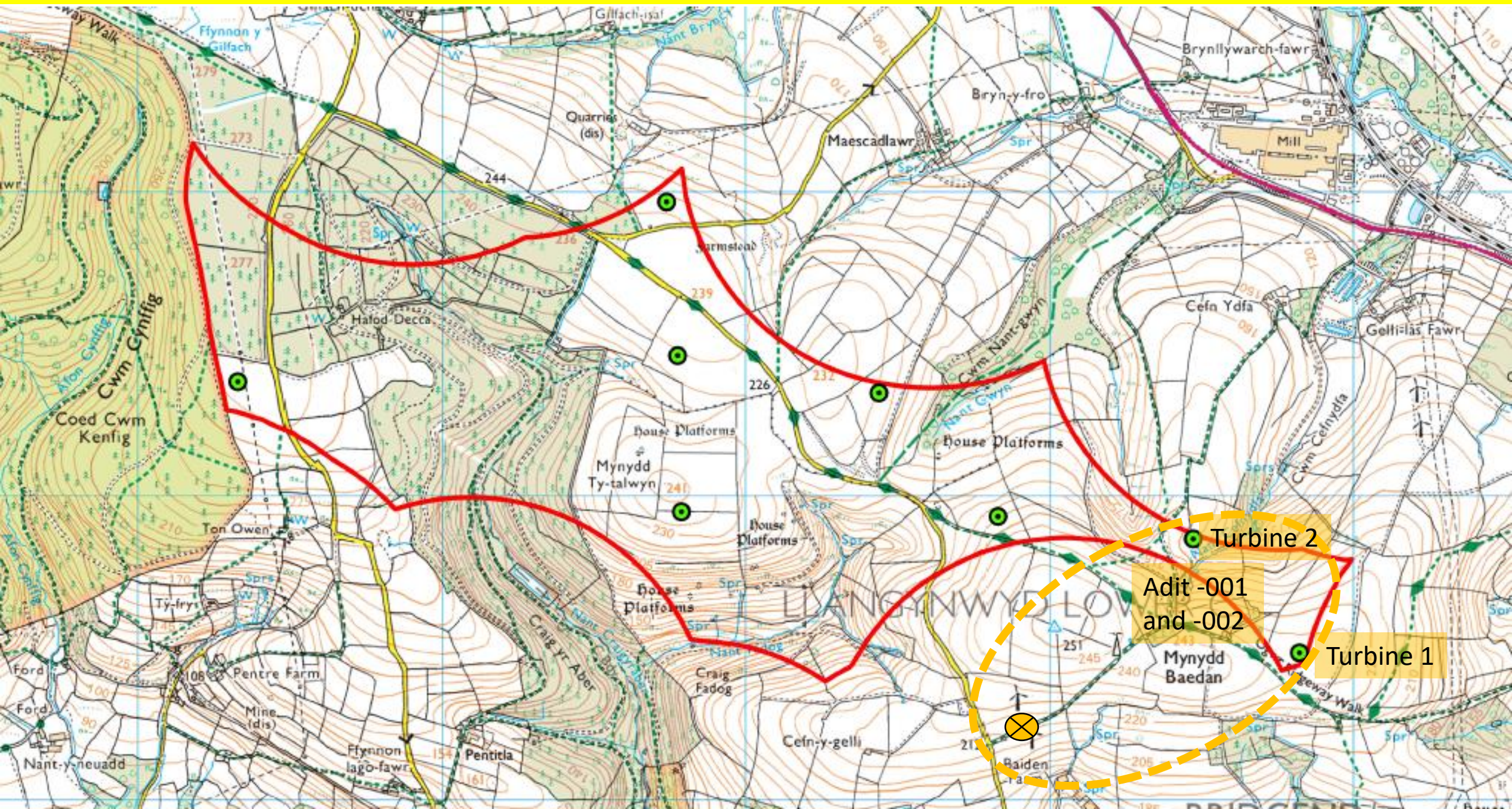
Turbine 2



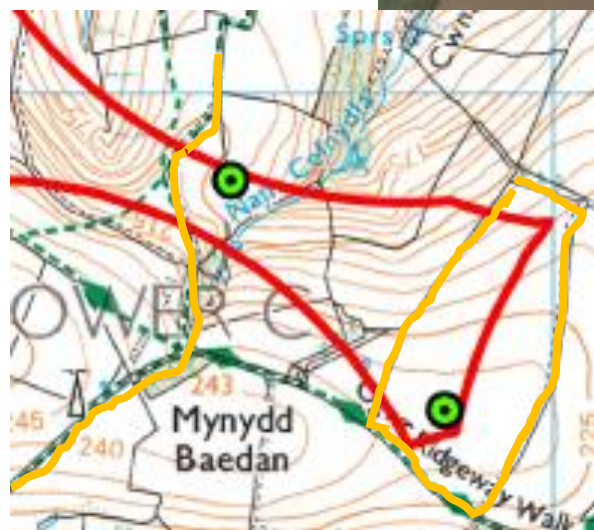
Turbine 2
IMG_9881



10. Turbine 1

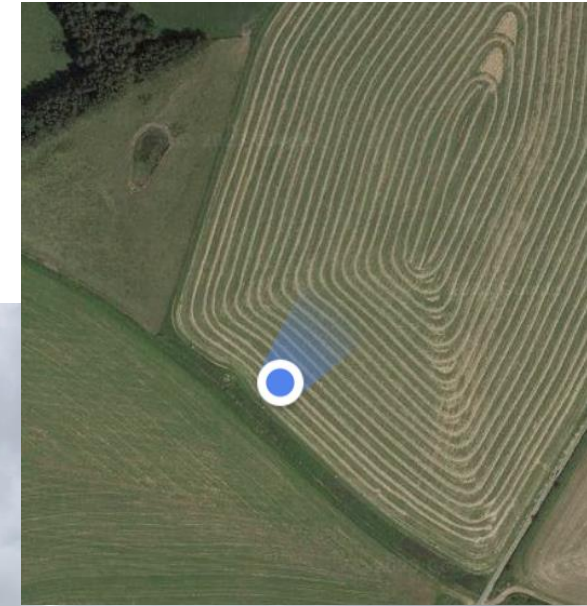
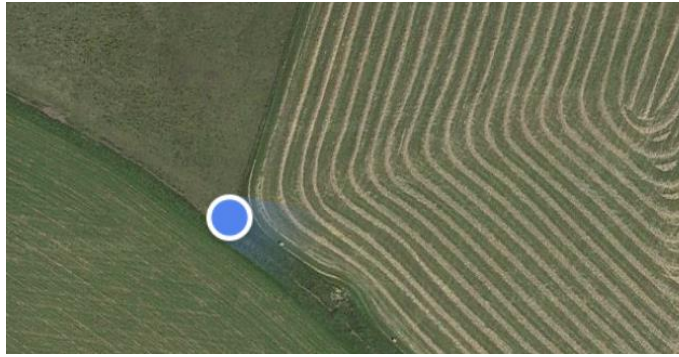


Turbine 1

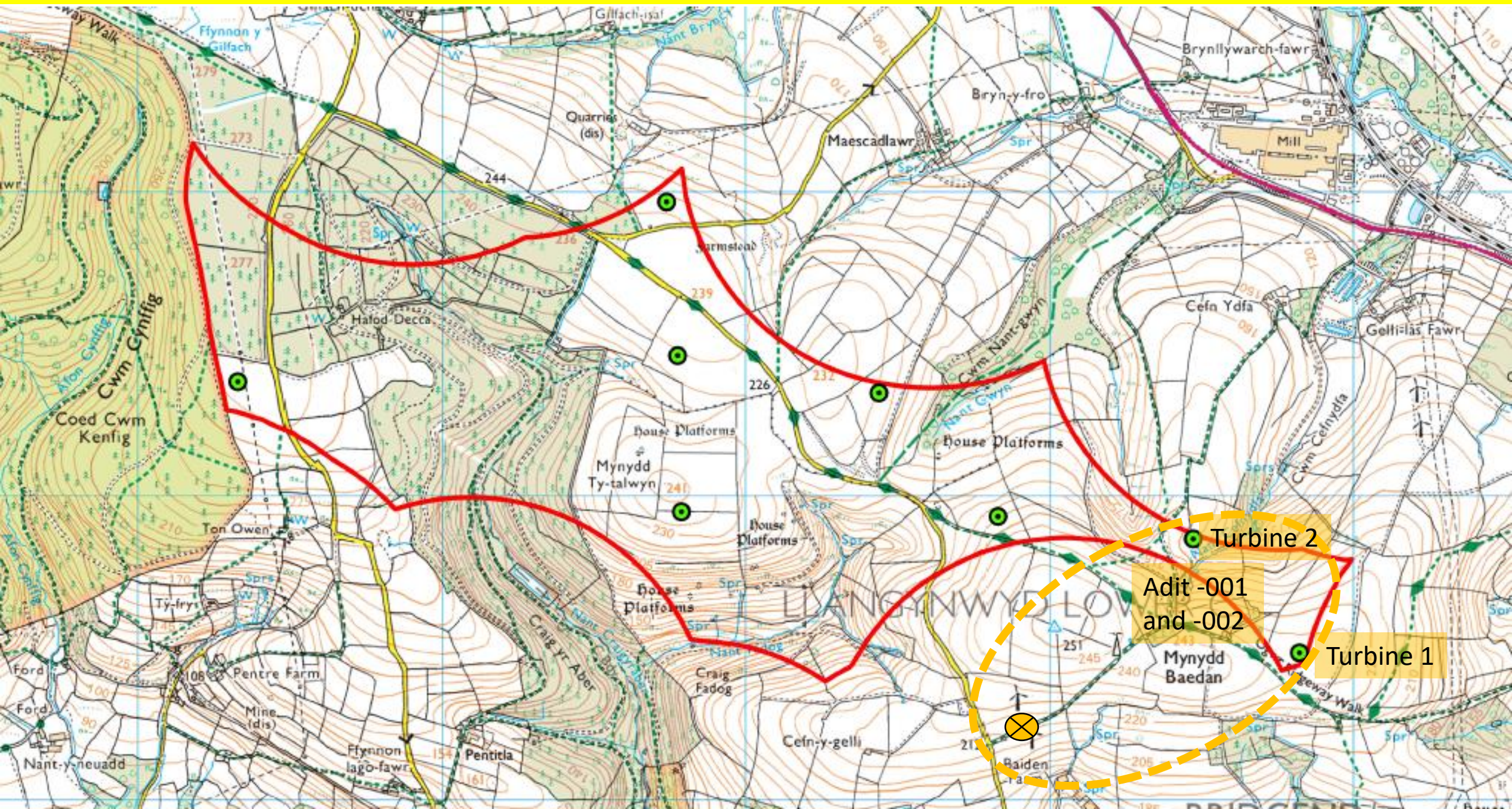


Turbine 1

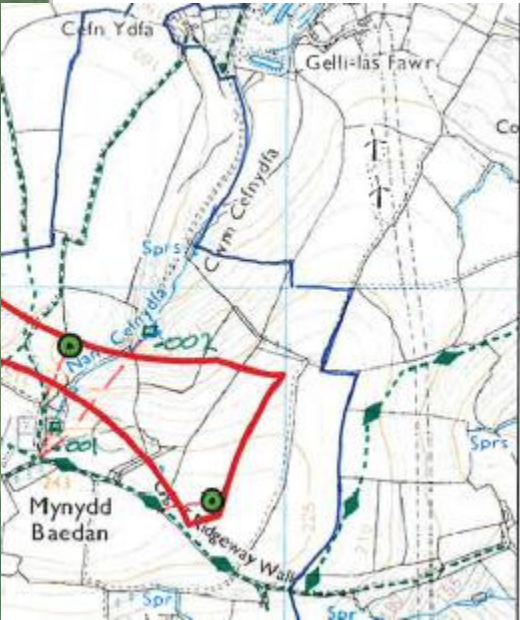
IMG_9916; IMG_9918; IMG_9926; IMG_9930



11. Audit -001



Audit Locations



Adits

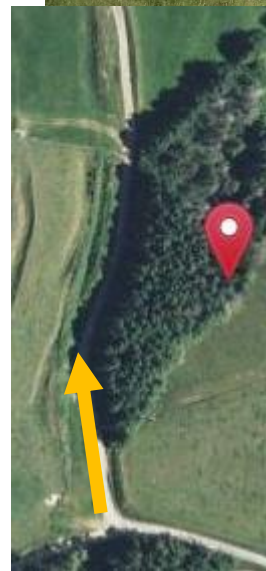
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287185-002	GR 287680	185880

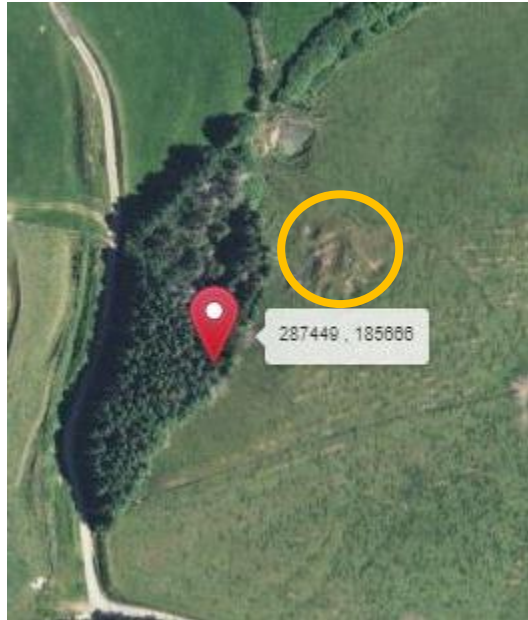
86

Turbine 1

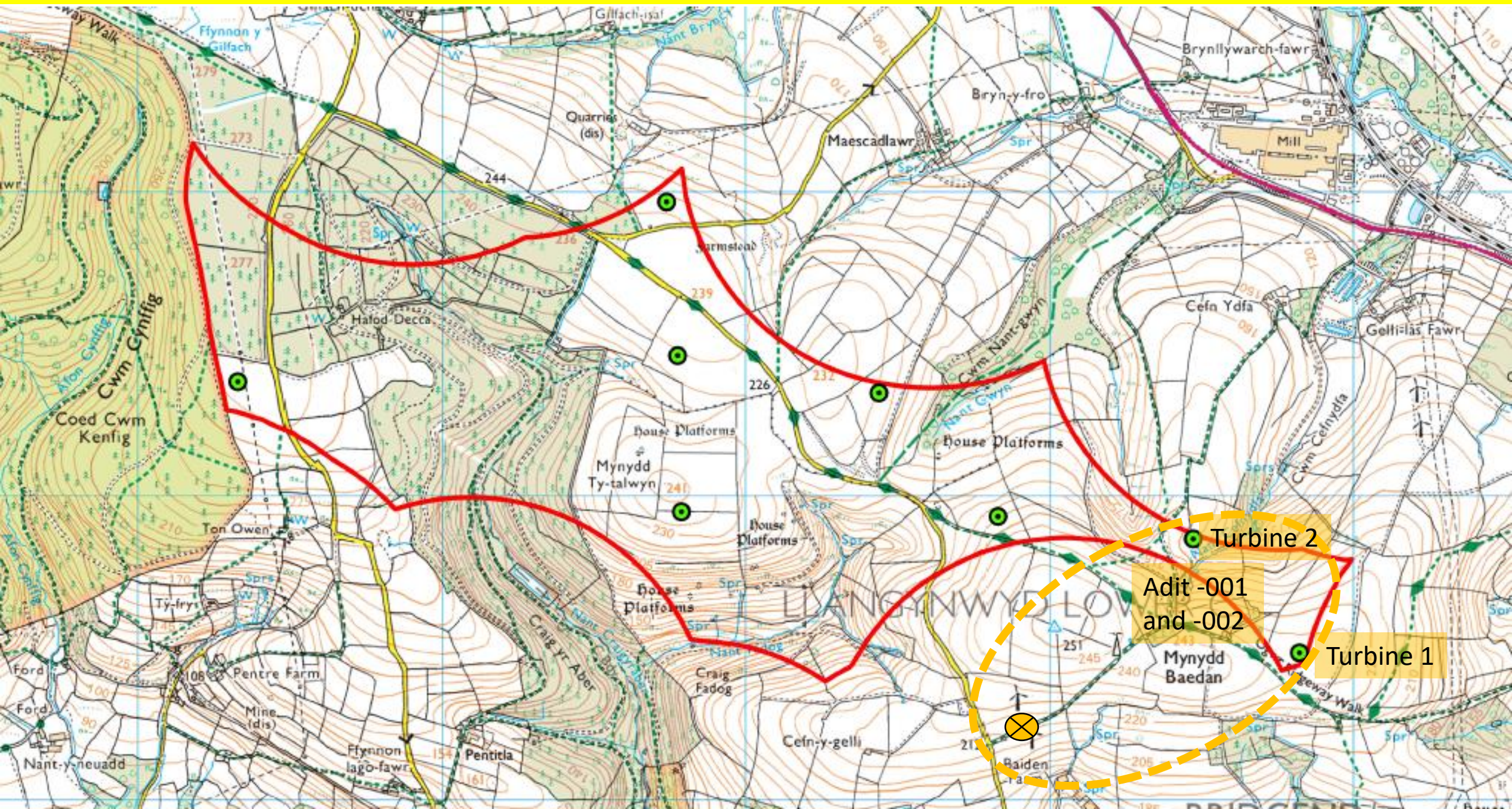
Audit -001

IMG_9874; IMG_9878; IMG_9904

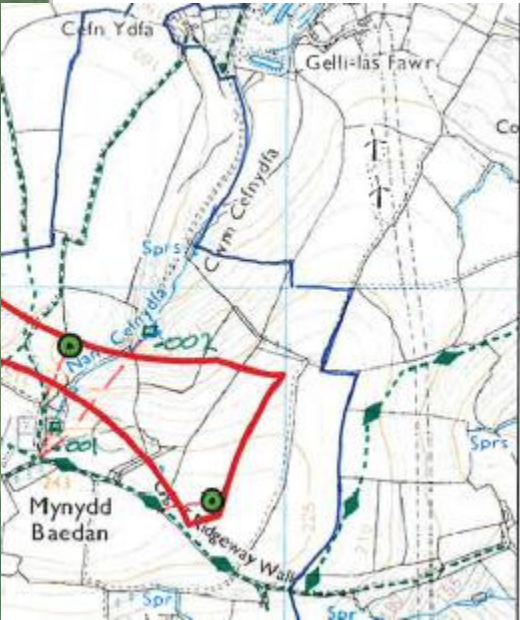




12. Audit -002



Audit Locations



Adits

287185-001	GR 287449	185666
287185-002	GR 287680	185880

86

Turbine 1

Audit -002

IMG_9938; IMG_9949

