

MERIONETHS.

MA 7 437

Mn ore, 1 ft band, alternating red & yellow, with
spessartine, rhodochrosite, quartz, rare rhodonite

GeL (1858) 388 Minium.

Gold belt: Andrew AR. Geol Mag (1910) 47 159 & 201
Readwin TA. The Geologist (1861) 4 571-576.

FJ North (1962) 98-100 Mn ores.

JR Foster-Smith "The Mines of Merioneth", British
Mining No. 6. Northern Mine Research Soc. (1977)

PTO

GW Hall ~~(1975)~~ (1975) "The Gold Mines of Merioneth"
Griffin Publications, Gloucester.

TA Morrison (1975) "Gold Mining in Western Merioneth".

CG Down (1980) "The Manganese mines of NWales"
Brit Minny 14; Northern Mine Res Soc.

GSCW (1974) Geol Surv. Map "Cent Wales Mining Field"
1:100 000

Allen PM & Jackson AA "Geological excursions in the Harlech Dome" B.G.S. Classical areas of Brit. geol. HMSO (1985)

C. Rundle priv comm in Allen & Jackson (1985) K/Ar age of mica
from Au-qtz veins of Dolg. Au belt $\rightarrow 405 \pm 15$ Ma.

ALBITE

MER.

Arenig Stn. Q.

Minffordd Q. (?)

Manod Granite Q

Tan-y-grisiau 6945

Barmouth

Manod Slate Q

Aleksite, $\text{PbBi}_2\text{Te}_2\text{S}_2$

Mer

Clogau M

ALLANITE

MER.

Tan-y-Grisiau 69 45

Allophane

Mer

Glasdir M 74 22

"AMPHIBOLE"

Mer.

MER.

Arenig Stn. Q. (7)

ANATASE

MER.

Arenig Stn. Q.

Hendre Henydd

Manod granite Q

Tan-y-Bwlch 6640

Tan-y-Frisiau 6945

Cwmorthin

Mael Ysgyfornogod, Traosfynydd

Ankerite

Mer

Moelfre M.

Apatite

see also "phosphatic nodules"

Tyllau Mwn M (fluorapatite)

Tan-y-grisiau

Mer

Aragonite

Mer

Vigna M

ARSENOFYRITE

MER.

Clogau M.

Graigwen M. *Llanaber*

Gwynfynydd M.

Panorama M.

Prince Edward M.

Vigra M.

Dol fawynog M

Prysor M.

"Asbestos"

Mer

Cwmorthin

AZURITE

1407
MER.

Clogau M.

Vigra M.

Capel Hermon

Baryte

Mer

Dolfrwynog M

Cwm Eisen M

Maestryfar M

Craigwen M, Mallwyd

Penyrallt M, Llanym.

Basaluminte

Me

Moel Goedog

Bornite

Mer

Glasdir M

Tyddyn Gwladys M

Capel Hermon

Brochantite

Mer

Vigra M

BROOKITE

MER.

Arenig Stn. Q.

Manod Q's (?)

garreg

Manod granite Q

Tan-y-grisiau 6945

Moel Ysgyfarnogod, Trausfynydd

CALCITE

Arenig Stn. Q.
 Bwlch-y-Plwm M.
 Clogau M.
 Cowarch M.
 Gamallt M.
 Glasdir M.
 Graigwen M. Llanaber
 Gwynfynydd M.
 Minffordd Q.
 Panorama M.
 Pant-y-Wrach M.
 Prince Edward M.
 Vigra M.
 Tyllau Mwn M.
 Tan-y-grisiau
 Dolgelley

MER.

Wnion M
 Dolfrwynog M
 Melin-y-wig
 Cader Idris
 Prince of Wales M (?)
 Garreg
 Manod granite Q
 Tyddyn Gwladys M
 Cwm Eisen M.
 Maestryfar M
 Cwm-Llech fraith M

Ca

Melin-Hyn-Pair M

Bryndinas

Craigwen M, Mallwyd

Penyrallt M, Llanym

Red Dragon M

Caegwran M

Cefn-Coch M

Ffridd-goch M

Caryopilite

Mer.

Llyn du Bach X

Chalcoalumite

Mer

Vigra M

Chalcote

Mer

glasdir M

Vigna M

Chalcophyllite

Mer

Vigra M

CHALCOPYRITE

MER.

Arenig Stn. Q.
 Bwlch-y-Plwm M.
 Castell-Carndochan M.
 Clogau M.
 Cwm Cynfal M., Ffestiniog
 Cwm-y-Swm M.
 Gamallt M.
 Glasdir M.
 Gwynfynydd M.
 Manod-Bach M.
 Moel Hafod Owen (Turf Cu Wks.)
 Panorama M.
 Pant-y-Wrach M.
 Prince Edward M.
 Prince of Wales M.
 Prysor M.

Vigra M.

Wnion M
 Ffridd-goch M
 Dolfrwynog M
 Trawsfynydd
 Tan-y-grisiau
 Coed Crafnant
 Cwm Afor
 Moelwyn M
 Allt-goch, Llanfachreth
 N. Dolfrwynog M
 Cwm Eisen Tssa M

Cuppy

Cwm Eusen M

Penmaen Au M (?)

Foel Isprî M.

Craigwen M, Llanaber

Caemab-Seifion

Maestryfar M

Cwm-Llechfron M

Caegwian M

Maesafallen

Melin-llyn-Parr M.

Bryndinas

Cyffannedd-Fawr

Craigwen M, Mallwyd.

Cowarch M.

Penyrallt M, Llanyrn.

Tyddyn Gwladys M

Capel Hetmon

Chamoside

1

Mer

Pen-yr-Allet M, Ffest.

Tyllau Mwn M

Bryny castell M

Unspecified
"CHLORITE" See also chamosite etc

MER.

Llechwedd Qs.

Foel Ddu, Llanbedr

Tany-grisiau 6945

Manod Granite Q

Coed Crafnant

Barmouth

Clogau M

Tior-y-Maen

Manod Slate Qls

Chrysocolla

Mer.

Trawsfynydd

Vigra M

Clinochlone

Mer

Tan-y-grisiau

COBALTITE

MER.

Clogau M. (?)

Vigra M (?)

Copper, native

Mer

Turf Copper Works

Vigra M

Capel Hermon

^{minerals}
"COPPER ORE", unspecified (I)

MER.

Cwm Cynfal M., Ffestiniog.
Dolfrwynog M.
Moel Hafod Owen (Turf Cu Wks.)
Coed Crafnant
Cae-gwyn
Talsarnau
Gefail-y-miners
Afon Stwlam
Moelwyn bach (?)
Cwm-y-foel (?)
N. Cnicht (?)
Cnicht Mt (?)

Cwm Croesor (?)
Traian
Hafod-uchaf (?)
Bron danw (?)
Tan-lan (?)
Ty'n-y-ddol
Bryn-tirion (?)
Brynhyfryd
Rhiw-goch (?)
Lant-mawr (?)
Dol-y-moch (?)
Bryn-dwryd (?)

Cu (unspec)

Moel Tecwyn (?)

Breichiau (?)

Llyn Tecwyn (?)

Caerwysch (?)

Gyrn (?)

Foel Ddu, Llanelltyd (?)

Cae-Mawr

Tyln-y-Benrhos (?)

Foel Cynwch (?)

Foel Isaf (?)

Bwlch-Coch

Coed-y-Brennin

Llwynon M

Cesailgwym (?)

Cwm Mynach (?)

Aber Hirnant

Benglog M

Corbet Dovey (?)

Tyddyn-y-Britddell (?)

Dolgoch (?)

Braich-y-Rhiw (?)

Afon Gwriil (?)

Afon Cwm Pandy (?)

Cwm Cynfal, Torwyn (?)

"COPPER minerals, unspec. (II)

Mer.

Glanymawddach M

Red Dragon M.

Tyllau Mwn M

Dyrysgol (?)

Gallt-y-Maen M

Covelline

Mer

Vigna M(?)

Capel Hermon

Cuprite

Mer

Vigra M

Develline

Mer

Vigra M.

Dolomite

Me

Moel Goedog

EPIDOTE

MER.

Blaenau Ffestiniog
Dolgelly

Tan-y-grisiau

Cwmorthin 6746

Dol-Fawr

Hafotty-Hendre

ERYTHRITE

MER.

Clogau M.
Ffestiniog
Vigra M.

"Bontddu" [= Clogau & Vigra]

"FELSPAR"

MER.

Cader Idris

Cwmorthin

Fluorite.

Mer.

Penyrallt M, Llanym. (?)

Franklinphilité

Mer

Llyn du Bæch X

"Fullers Earth"
[? = Montmoullonite]

Mer

Frongoch

GALENA (and "LEAD ORE")

(1)

MER.

Bwlch-y-Plwm M.

Caegwernog M.

Clogau M.

Cowarch M.

Cwm-y-Swm M.

Dolfrwynog M.

Dolgelly

Ffestiniog

Gamallt M.

Glasdir M.

Graigwen M. Llanaber

Gwynfynydd M.

Manod-Bach M.

Panorama M.

Pant-y-Wrach M.

Prince Edward M.

Prince of Wales M.

Tan-y-Bwlch

Vigra M.

Cwm Eisen M. (with Au/Ag)

Cynwyd

Tyddyn Gwladys M (Ag)

Melin-y-wig

Tan-y-grisiau

Union M

Moelwyn M

Dinos Mawddy

Bryndinas

Melin-llyn-pair M.

Aberdorey

Towyn

Cwmorthin (Pb)

Hafod-boeth (Pb)

Gefail-g-miners (Pb)

Afon Stwlan (Pb)

Moeliwyn bach (Pb)(?)

Cwm-y-foel (Pb)(?)

N. Cnicht (Pb)(?)

Cnicht Mt (Pb)(?)

Cwm Croesor (Pb)(?)

Traian (Pb)

Hafod-uchaf (Pb)(?)

Bron-danw (Pb)(?)

Tan-lan (Pb)(?)

Tyn-y-ddol (Pb)

Bryntirion (Pb)(?)

Brynhyfryd (Pb)

Rhiw-goch (Pb)(?)

Pant-mawr (Pb)(?)

Dol-y-moch (Pb)(?)

Bryn-dwryd (Pb)(?)

Moel Tecwyn (Pb, ?)

Breichiau (Pb, ?)

Llyn Tecwyn (Pb, ?)

Galena, "Pb ore" (Pb) (II)

Mer

Caerwysch (Pb, ?)

Gyrn (Pb, ?)

Castell Carn-dochan

Prysor M

Penyrallt M, Ffest.

N. Delfwynog M

Foel-wen

Cefn-Dauddwr

Tyddyn-Gwladys M

Cwm Ewen Issa M

Berthllwyd M.

Cefn-coch M.

Foel Ispri M.

Bwlch-coch (Pb)

Llwynon M

Caegwian M

Cwm-Llechfraith M

Maestryfar M

Sovereign M

Maesafallen

Pb

Aber Hirnant ("Pb")
Benglog M ("Pb")
Nelt-goch, Towyn ("Pb"?)
Corbet Dorey ("Pb"?)
Yr Horon ("Pb"?)
Tyddyn-y-Briddeff ("Pb")
Llyn-Barfog ("Pb")
Ffridd-Hafodwen (Pb?)
Nantcynog (Pb?)
Nelle Gwynne
Dolgoch (Pb?)

Braich-y-Rhiw (Pb,?)
Afon Gwrit (Pb,?)
Afon Cwm Pandy (Pb,?)
Cwm Cynfal, Towyn (Pb,?)
Cyfannedd-Fawr
Foel-y-Ffridd (Pb)
Bron-yr-Aur (Pb)
Pen Main (Pb,?)
Rhos-Lwyd (Pb,?)
Pennant M.
Craigwen M, Mallioid.
Penyrallt M, Llanym.

Gallena, "Pb ore" (Pb)(III)

Mer

Y-Ceunant (Pb, ?)

Boncyn (Pb, ?)

Red Dragon M.

Tyllau Mwn M.

Foel Rhudd.

Dyrysgol

Gallt-y-Maen M

+ MORE!

Garnet (unspecified)
(See also under species.)

Mer

Foel Ddu, Llanbedr

Gibbsite

Mer

Glasdir M

74 22

Blancococerinite-(Cu)

Mer

Ffridd-goch mine

GOLD

Caegwernog M.
 Castell-Carndochan M.
 Clogau M.
 Cwm-y-Swm M.
 Dolfrwynog M.
 Gamallt M.
 Glasdir M.
 Graigwen M. Llanaker
 Gwynfynydd M.
 Panorama M.
 Prince Edward M.
 Prince of Wales M.
 Prysor M.
 Vigra M.
 Wnion M.
 Hendreforion M

MER.

Cwm Eisen M.
 Berth llwyd M (in sphalerite)
 Cefn-coch M
 Ffridd-goch M
 Cwm Eisen Issa M
 Tyddyn Gwladys
 Mawddach River
 Llafar (?)
 Gelli Gain (?)
 Afon Gain (?)
 Bryn Castell (?)

Au I

Dol-ddinas (?)
Bod-y-fuddau (?)
Ffridd-ddu (?)
Cae-gwyn (?)
Allt-goch(?), Llanfachreth
Friog(?)
Cae'n-y-coed(?)
Gaelt-cefn-Deuddwr(?)
Mynydd-Bach(?)
Mynydd-Cae'n-y-Coed(?)
N. Dolfrwynog M.
Cadwgan (?)

Foel-Wen(?)
Cefn-Deuddwr(?)
El-gwynfyngold M(?)
Bwlch-y-ffordd(?)
Penmaen-gold M.
Foel Ispr
Foel Isaf(?)
Bryn-Prydydd(?)
Tyn-y-Benrhos(?)
Gelli-gemlyn(?)
Cae-Mawr
Foel Ddu Llanelltyd(?)
Foel Traian(?)

GOLD (II)

Mer

Bwlchgwyn (?)
 Ceunant (?)
 Bwlch-Coch
 Llwynon M
 Cae-mur-Hywel (?)
 Caegwion M (?)
 Garth-gell M
 Bontddu M
 Cwm-Llechfraith M (?)
 Maestryfar M
 Sovereign M

Cae-mab-Seifion (?)
 Cesailgwym (?)
 Cwm Mynach (?)
 Rhos-Lwyd (?)
 Red Dragon M (?)

Gypsum

Mer

Vigra M

Mael Ferra M

Bryny castell M

HAEMATITE

MER.

Hafodtybach

Tan-y-giisiau

Hübnerite

Mer

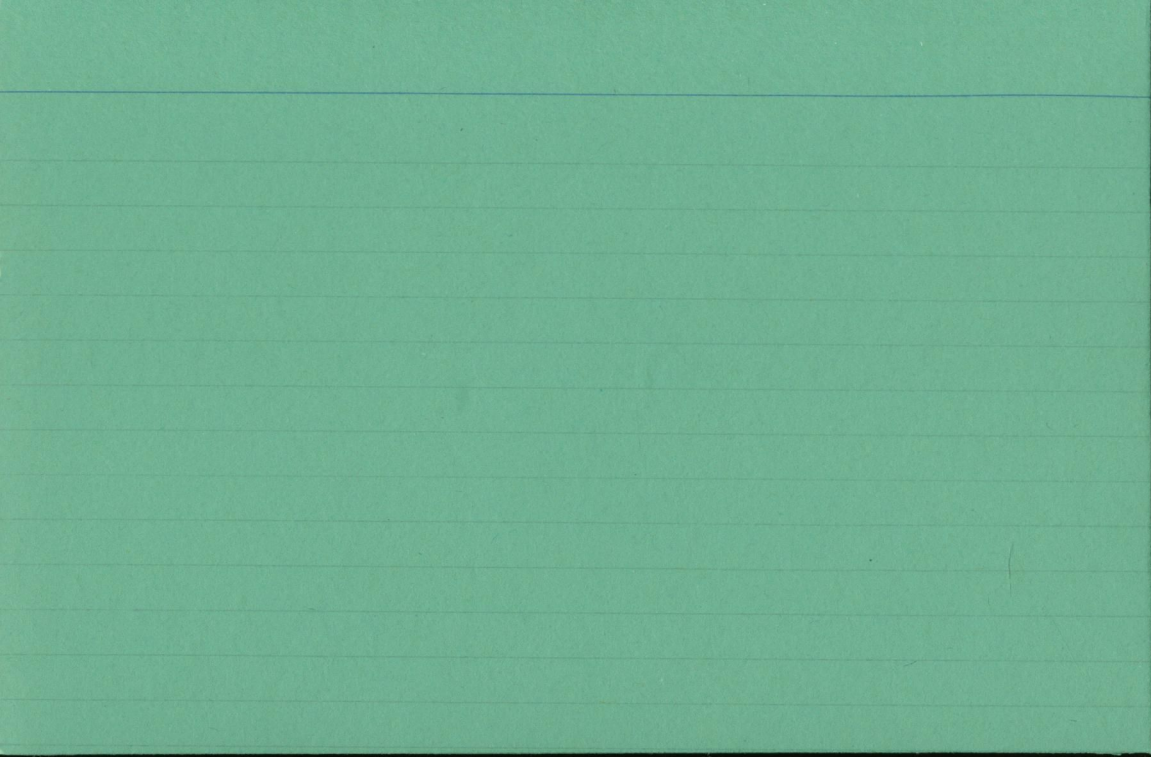
Diphwys

Moelfie mine

HYDRONIUM - JAROSITE

MER,

Brynycastell M



ILMENITE

MER.

Blaenau Ffestiniog

Llechwedd Q. (2)

Tyllaw Mwn M.

"IRON ORE"

MER.

Pen-y-Rallt M. Ffest.

Tyllau Mwn M

Cross Foxes

Cwm Eisen M (with Au/Ag)

Brynycastell M ("Pisolitic")

Langite

Vigra M.

Mer

"LEAD ORE"

MER.

See GALENA

MAGNETITE

MER.

Hafodtybach

Tyllau Mwn M

Pen-yr-Allt M, Ffestiniog

Ffridd-Bryn-Coch

Diphwys

MALACHITE

MER.

Glasdir M.

Wnion M

Coed Crafnant

Capel Hermon

{ Cefn-Deuddwr } "green & blue stains" [?]
{ Mynydd Caen-y-coed }

Vigra M

"MANGANESE ORE"

MER.

Moelfre M.

Mynydd Nodol

Foel Idnu, Llanbedr

Cwm Mawr (pink)

Barmouth

Cesailgrym

Maes-y-garnedd, Llanbedr Llyn du Bach M.

Cwm Mynach

Bwlch-y-Rhiogyr

Graig-blehaf

Diphwys (?)

Dol-y-Bekin

Llyn Eiddew-mawr

Rhinog Fawr

Harlech

"Manganese oxides"

Mer

Pistyll - Cain

Marcasite

Mer

Tany-grisiau
Blaenau Ffestiniog

Micas (unspecified)

Mer

Gwynfynydd mine
Prince of Wales M (?)

Minium

Merionethis

Merionethshire

Molybdenite

Mer

Capel Hermon

Monohydrocalcite

Mber

Vigna M

MUSCOVITE

MER.

Arenig Stn. Q.
Llechwedd Qs.

Nagygite

Mer

Clogau M (?)

Casgwan M (?)

Cefn-coch M. (?)

Ffridd Goch M (?)

Vigra M (?)

Nickel minerals, unspecified
Vigna M (?)

Mer

Ortho class

Mer

Minffordd Q.

"Phosphatic nodules"

Mer

[=apatite?]

Twr-y-Maen

Pickeringite

Mer

Gwynfynydd M

"Polytelite" = Ag-tetrahedrite Mer

Tyddyn Gwladys M

PYRITE(I)

Bwlch-y-Plwm M.
 Castell-Carndochan M.
 Clogau M.
 Gamallt M.
 Graigwen M. Llanaber
 Gwynfynydd M.
 Harlech
 Llechwedd Qs.
 Manod-Bach M.
 Panorama M.
 Prince Edward M.
 Prysor M.
 Vigra M.
 Wnion M.
 Glasdir M.
 Ffridd-goch M.

MER.

Dolfrwynog M.
 Trawsfynydd
 Cader Idris
 Tan-y-gwisau
 Cwm-Mawr
 Penmaen Au mine
 Cwm Ewen M.
 Cwm Ewen Issa M.
 Tyddyn-gwladys M.
 Foel-wen
 N. Dolfrwynog M.
 Manod Slate Q's

Pyrantle

Foel Ispri M.

Cefn-Coch M.

Berthllwyd M.

Cae-mab-Seifion

Prince of Wales M

Sovereign M

Maestryfar M

Cwm-Llechfraith M

Caegwian M

Cyfannedd-Fawr

Craigwen M, Mallwyd.

Cowarch M

Penyrallt M, Llanym.

Red Dragon M

Buarthre

Capel Hermon

Cefn-Deuddwr

Dol-fawr

Foel Cynwch

Hafotty-Hendre

Maes-y-Garnedd

Mynydd-Caen-y-Coed ^{Llanelltyd}

Twr-y-maen

Pyrite (II)

MER

Bryncastell M

Pyrolusite

Mer

Cwm-Mawr

PYRRHOTITE

MER.

Clogau M.

Graigwen M. *Llanaber*

Gwynfynydd M.

Panorama M.

Prince Edward M.

Vigra M.

Tyllau Mion M.

Tyddyn Gwladys M

QUARTZ

(1)

Arenig Stn. Q.
 Bwlch-y-Plwm M.
 Castell-Carndochan M.
 Clogau M.
 Cwm Cynfal M., Ffestiniog
 Dolfrwynog M.
 Gamallt M.
 Glasdir M.
 Graigwen M. Llanaber
 Gwynfynydd M.
 Llechwedd Qs.
 Manod-Bach M.
 Minffordd Q.
 Moelwyn M.
 Panorama M.
 Pant-y-Wrach M.

MER.

Prince Edward M.
 Vigra M.

Tyllau Mwn M
 Foel Ddu, Llankedr
 Mer.

Tan-y-Gristiau
 Wnron M

Ffridd-goch M
 Cwm Eusen M

Trawsfynydd
 Melin-y-wig
 Garneg

Φ 2 (I)

Manod Granite Q
Coed Crafnant
Cwm-mawr
Dol-ddinas
Bod-y-fuddau
Ffridd-ddu
Cae-gwyn
Gefail-y-miners
Penyrallt M, Ffest.
Prysor M
Bwlch-y-Ffordd

Penmaen Gole M
Cwm Eisen Issa M
Tyddyn gwladys M
Cefn-Deuddwr
Foel-Wen
Cadwgan
N. Dolfrwynog M
Allt-goch, Llanfachreth.
Mynydd Caen-y-Coed
Hendreforion M
Foel Ispri M
Bryn-Prydydd
Tŷn-y-Benrhos
Gelli Gemlyn

QUARTZ (II)

Mer.

Cefn-Coch M
 Berth Llwyd M
 Bwlchgwyn
 Llwynon M
 Cae-mur-Hywel
 Caegwian M.
 Garth-gell M
 Cwm-Llechfraith M
 Maestryfar M
 Sovereign M
 Prince of Wales M

Cae-mab-Seifion
 Cesailgwyn
 Maesafallen
 Melin-llyn-Pair M
 Bryndinas
 Kelle Gwynne
 Cyfannedd-Fawr
 Craigwen M, Mallwyd
 Cowarch M
 Penyrallt M, Llanym
 Red Dragon M
 Cwmorthin

Qb II

Barmouth

Buarthre

Capel Hemon

Manod Slate Qls

Ffestiniog (Q'y)

Moel Ysgy farnogod, Trawsfynydd

Moelfre M

Diphwys

Rhodochrosite
See also Manganere ore
Mer

Mer

Barmouth

Moelfre M

Diphwys

Llyn du Bach M

Rhodonite
see also Manganese ore
Mer

Mer

PSILOMELANE

Mynydd Nodol

Romanechide

MER.

Rutile

Mer

Manod "Granite" Q

Clogau M

Tan-y-grisiau 6945

"Sericite"

Me ✓

Tan-y-bwlch

Clogau M

Siderite

Mer

Coed Crafnant

Silver ore

Mer.

Berthelloyd M (in sphalerite)

Cwm Ewen (in limonite & galena)

Tyddyn Gwladys (in galena)

Cwmorthin (in galena)

Sonolite

Mer

Llyn du Bach X

Spessartite
(See also Manganese ore)

Mer

Mer

Barmouth

Hafody Mls

Pistyll-Cain

SPHALERITE (and "ZINC ORE")

(Zn)

MER.

Bwlch-y-Plwm M.
 Caegwernog M.
 Clogau M.
 Cwm-y-Swm M.
 Dolfrwynog M.
 Dolgelly
 Gamallt M.
 Graigwen M. *Llanaber*
 Gwynfynydd M.
 Manod-Bach M.
 Moelwyn M.
 Panorama M.
 Prince Edward M.
 Prince of Wales M.
 Vigra M.
 Cwm Eisen M.
 Tanyllgrisiau

Berth llwyd M (Au/Ag)
 Wnion M
 Pant-y-Wrdech mine
 Gefail-y-miners (Zn)
 Afon Stwlan (Zn)
 Maelwyn Bach (Zn)
 Prysor M
 Castell Carn-Dochan
 Penyrallt M, Ffesto
 N. Dolfrwynog M
 Foel-wen

Sphene

Mer

Tan-y-grisiau (?) 6945

STILPNOMELANE

MER.

(Pen-yr-Allet)
(Pen-y-Rallt) M. Fest.

Tyllau Mion M.

Arthog

Arenig Sln. Q'y (?)

Bryncastell M.

Synchysite-(Ce)

Mer

Manod "granite" Q
Ten-y-grisian

TELLURBISMUTHITE

MER.

Clogau Mine.

Vigra mine,

Caerwian M

Cefn-Coch M

Ffri dd-Goch M

Vigra M

Tennantite

Mer

Capel Hermon

Tephroite

Mer

Llyndu Bach X

TETRADYMITES ✓

MER.

~~See TELLURETSMITH~~

Clogau M

Caegwian M

Cefn-Coch M

Ffridd-Goch M

Vigra M

Tetrahedrite

Mer

Capel Hermon

Tyrolite

Mer

Vigra M ("Tyrolite-like mineral")

Capel Hermon

"ZINC ORE"

MER.

See SPHALERITE

1" 127

SN 61 96

ABERDOVEY, Mer.

See also MELIN-LLYN-PAIR MINE; TOWYN

JR Foster-Smith in N-F (1959), p309 The old mine near
Aberdovey was known as the "Melin-llyn-
pair mine"

WJL (1967) Map, p 237 Lead mine - "ABERDYFI", S
of Melin-llyn-y-pair M.

ABERYDY, Mer.

See ABERDOVEY

1" 117

~ SH 957 324.

ABER HIRNANT, Llanfor, Mer.
See also MAESAFALLEN

JRF-S(1977)30.

A report of 1851 speaks
of 5 veins of lead, copper & zinc
ores, tested by short levels, near
here.

1" 127

SH 633 026

AFON CWM PANDY, Towyn, Mer.

JRF-S (1977) 27 Trial level, prob. for
Pb or Cu.

1" 116

SH 741 324

AFON GAIN, Trawsfynydd, Mer.

JRF-S(1977)14 Trials on a SE vein
in Cambrian rocks. For Au?

1" 116

SH 608089

AFON GWRIL, Llangelynnin, Mer.

JRFS(1977)27

Trilobite in Cambrian;

for Pb or Cu?

1" 107, 116

SH 671 446

AFON STWLAN (LLYN STWLAN) Ffestiniog, Mer.

JRFS (1977) 9 Small Cu, Pb, Zn mine in
Ordov. sed. & volcs. Last worked 1919
as part of MOELWYN M. (qv)

1" 116

SH

745 247

ALLT-GOCH, Llanfachreth, Mer.

‡ ALLT-GOCH, Towyn, 619 965

JRF-S (1977) 18.

Trials, for Au?, on

quartz vein w. chalcopysite.

1" 127

SH 619 965

ALLT-GOCH, Towyn, Mer.

cf ALLT-GOCH, Llanfachreth, 745 247

JRF-S (1977) 30. Series of trial levels,
prob. for Pb, on a NS vein.

1" 116

SH 8/3-4

ARENIG, Mer.

See also ARENIG STATION QUARRY; MYNYDD
NODOL.

BM(NH) Botry. psilomelane

WF Lowe, Sci. Gossip (1880), 219. Diatomaceous
earth, Arenig Fach [near 8241]

ARENIG STATION QUARRY, Llanycil, Merionethsh.

ORM spec. Brookite, small xls with albite etc, on joint in dolesite - "Quarry outside Arenig Stn."

RSW Bet al 7/8/62, Vol II p 98, On boulders' surfaces (joint planes) only, in one corner of quarry (ie not found in situ). Fine brookite plates with anatase - bipyramidal striated lustrous xls; albite, & quartz.

Elsewhere in quarry (in situ) large green prisms of $\square$ cross section, which on X-raying (M/c univ) give pattern of muscovite + quartz + calcite.

and must be pseudomorphs after something
(? pyroxene); these are embedded in calcite
filling vugs in the rock. Also brown
fibrous ? amphibole; veins of quartz
with clear xls embedded in calcite (&
can be revealed by dissolving the calcite
in dil. HCl), also with chalcopysite xls

Ditto, 3/3/63; Vol III, pp 42-44.

Similar.

P. Thomson, priv comm 9/72.

? Stilpnomelane joint coatings

ARTHO G, Mer.

TW Bloxam & NB Price, Nature (1961) 190 525.

Stilpnomelane is common in some of
the rocks, and as small veins &
druses

1" 127

SH 617 963

BALKAN HILL, Towyn, Mer.

JRF-S(1977) # 30. Level on NS vein.

BARMOUTH ~~MINES~~

Mer

See also PANORAMA M.

JRF-S (1977) 35 "Barmouth mines, near
Barmouth" ~~Not~~ Not located,
may = PANORAMA?

Allen & Jackson (1985). 613159 - Beds exposed just above
bend in road below church - siltstone with
lenses & nodules of spessartine. Higher up
an overgrown adit in a quartz vein.
61251605 - Trial pit has Mn ore of (spessart +
rh-chr + qtz + albite + chlorite). (See Woodland,

1939; Glasby, 1974). 6125 1609 - ~~An~~ adit.

613162 (nr "Dripping Well") Flooded adit in
quartz vein above church, for Cu & Pb

6155 1577 Quartz veins.

6183 1606 Small tip at entrance to trial in
quartz vein

BEDD-Y-COEDDWR MINE, Llanfachreth, Mer.

See E. GWYNFYNYDD M SH 74 20

1" 116

SH 805 236

BENGLOG MINE, Llanfachreth, Mer.

JRFS (1977) 30. First worked ~ 1770. 5
veins tested by 1851, with lead,
zinc, & copper ores. Active ~ 1860.

= DRWS-Y-NANT MINE

1" 116

SH

~~740 189~~ 722

235

BERTH LLWYD MINE, Dolgelly, Mer.

DC Davies (1888)

Sphalerite, "with considerable amount of gold & silver"

OS 1" map shows "Berth-lŵyd" at SH 740 189

JRF-S (1977) 19-20

SH 722 235.

Extensive mine on a strong NE vein of quartz with much pyrite, some galena & sphalerite. Auriferous. Same vein worked at CEFN-COCH M. [90] to the SW.

Started 1860-1866. Reworked ~ end
of 19th Cent.

1" 107, 116

SH 70 45

BLAENAU-FFESTINIOG, Mer.

MANOD Qls

See also MOELWYN MINE, LLECHWEDD QUARRIES, ~~the~~ TAN-Y-GRISIAU,

Nat Mus Wales
Cardiff Mus:

"N of Blaenau-Ffestiniog" - Ilmenite,
black xls at contact of epidote vein with diabase
rock. (cf DINORWIC QUARRY, Carn.)

RE Bevins & T Sharpe Welsh Minerals (NMW) 1982

Marcasite xls → 2 cm. NMW 27.III.GR 237

BLAEN-Y-CWM, Trawsfynydd, Mer.

See PRYSOR MINE SH 73

1" 116

SH 730 350

BOD-Y-FUDDAU, Trawsfynydd, Mer.

JRF-S (1977) 14

Trial in quartz veins

in Cambrian rocks. For Au?

1" 117

SH 887 165

BONCYN, Llanymawddwy, Mer.

JRFS (1977) 32.

Shaft, prob. for lead

one.

BONTDDU, Mer.

See also CLOGAU MINE; VIGRA MINE; GRAIGWEN M.
CAEGWIAN M. etc.

"Bontddu" often used as synonym for these mines

Cardiff Mus (Nat Mus Wales). Erythrite

The Times 23/4/62. A new company preparing to mine gold on hillside above Bontddu intending to go below the old workings.

JRF-S (1977) 25. Trial for gold ~ mid 19th cent, near 667 187 = BONTDDU M.

1" ~~126~~ 127

SH 637 009

BRAICH-Y-RHIW, Towyn, Mer.

JRF-S(1977) 27-28. Trial levels on
NW veins, prob. for Pb or Cu ores.

1" 116

SH 650 386

BREICHIAU, Llandecwyn, Mer.

JRF-S(1977)11. Trial level in
Cambrian, to SW prob. for Cu or Pb.

1" 107, 116

SH 614 422

BRONDANW, Llanfrothen, Mer.

JRF-S (1977) 6 Unsuccessful trial ^{on} veins
in Ordov. slates, prob. for Pb, Cu.

1" 127

SH 735 027

BRON-YR-AUR, Pennal, Mer.

JRFS(1977) 35 = FOEL GOCH.

Trial for Pb, ~ 1760.

See WJ Lewis "Lead Mining in Wales" (1967) 162

1" 116

SH 649 208

BRYN CASTELL, Llanaber, Mer.

(NOT = BRYNYCASTELL (Fe) M.)

JRF-S(1977)22. Trial level on NE
vein. Prob. for gold; mid 19th Cent.
1" 116 = "Level (Copper)" at this loc

1" 116

SH 744 245

BRYN-COCH, Llanfachreth, Mer.

JRF-S (1977) 19. Unsuccessful level to
explore SW extension of Dolfrwynog lodes

1" 127 SH 4 650 999

BRYNDINAS, Towyn, Mer.

WJL (1967) Map, p. 237 Lead mine

JRF-S (1977) 28 = DYSRNANT MINE. Small
Pb mine on 2 veins, NNW & NW,
intersecting. Quartz, some calcite;
sphalerite, chalcopryite; galena
strings & pockets. Mid 19th Cent?

1" 116

SH 625 396

BRYN-DWYRYD, Penrhyn deudraeth, Mer

JRF-S(1977)11 Short trial level,
prob. for Pb or Cu, in Cambrian rocks.

1" 107, 116

SH

634 418

BRYNHYFRYD, Llanfrothen, Mer

JRF-S (1977) 7. Trial for Cu, Pb on
veins in Ordov. slate! Prob. same
veins as BWLCH-Y-PLWM & poss. CAEFALI
(=PENYRALLT)

1" 107, 116

SH 642 404

BRYN-MAWR, Ffestiniog, Mer.

JR F-S (1977) 9 Crosscut to N from
642 404. Unsucc.

1" 116

SH 739 229

BRYN-PRYDYDD, Llanfachreth, Mer.

JRF-S (1977) 20. Trial, prob. for gold,
on quartz veins.

1" 107, 116

SH 636 422

BRYNTIRION, Llanfrothen, Mer.

JR F-5 (1977)7 Small mine or trial,
prob. for Pb, Cu, in Ordov. slates

BRYN Y CASTELL M., Dolgellau, Mer.
(NOT = BRYN CASTELL, Llanaber)

Cotterell, T. (2006) J. Russ. Soc. 9, 65-67

AL SH 760164; Fe mine. = "CROSS FOXES M."
at Cross Foxes. Pisolithic Fe ore.

Hydronium-jarosite confirmed - yellow
efflor of micro acicular sprays, with
and pseudo-after gypsum. Stilpnomelane;
chamosite-rich host rock. Massive, decaying
pyrite

BUARTHRE, Llanfachreth, Merioneths.

Allen & Jackson (1985) Pyrite halo of
CAPEL HERMON porphyry-cu deposit exposed
along track near Buarthre, e.g. at
747 261 - abund. pyrite dissemin. & veinlets in
quartz; 750 263 pyrite outcrop; 752 263
trial in quartz vein with pyrite.

SJ 115445

BWLCH COCH, Corwen, Mer

See CORWEN

1" 116

SH 648 202

BWLCH-COCH, Llanaber, Mer.

JRF-S(1977)26. Trials of ENE veins,
for Pb & Cu ores with which gold is
associated.

1" 116

SH 761 244

BWLCHGWYN, Llanfachreth, Mer.

JRFS (1977) 19 Unsucc. trials on quartz
veins, prob. mid 19-4th cent; for
gold.

1" 116

SH

726 282

BWLCH-Y-FFORDD, Trawsfynydd, Mer

JRF-S (1977) 15. Unsucc. trials in quartz
veins - for Au?

1" 107, 116 ~~SH~~ SH ~~623412~~ 627 415 (Upper)
624412 (Lower workings)

BWLCH-Y-PLWM MINE, Llanfrothen Mer.

AA Archer NF (1959), 267. Two lodes: E-W, with quartz,
galena, pyrite & some calcite. N-S of
brecciated greenstone cemented by calcite
and quartz with galena, blende, & a little
chalcopryte. see Dewey & Smith (1922) 53.

OS 2½" map shows a "Bwlch-y-plwm" at SH 629415
(1" 107, 116), near Pen-yr-allt mine. Nearby
are (i) what looks like a dump, at 625412
and (ii) "Works (Disused)" at 633414

WJL (1967) Map, p 237. Lead mine

JRF-S (1977) 7. Mine, with 7 veins, 2 of importance, one EW other NS, in slates & volcs of Ordov. age. Mainly lead ore, some Cu ore. Sphalerite in N-S vein, plentiful on dumps by the new mill (SM 624/412). Gangue: - quartz (sometimes pink) & calcite.
Worked 1577, 1680s, 19th Cent. Closed 1921.

1" 116

SH 62 20

BWLCH-Y-RHIW GYR,

Mer

OS 1" 116 (1947) shows "Manganese mine" at
62 20

1" 116

SH

70 14

CADER IDRIS, Dolgelly, Mer.
See also CROSS FOXES

TMH (1868), 75. Felspar, in Amygdaloidal greenstone.

According to natives "uranium"
has been found by Fox's Path.
cf Ponsford Bull & S (1955) 10 24-44, cited
in AA Archer N-F (1959) p. 274

Warner, "Wales" (1799) 97. Several ~~specimens~~ specimens of
fine calcareous spar [calcite] found amongst
debris on S side of Lyn-cây pool
[= LLYN CAU, 71 17; $\therefore$ spar near 71 5 172].
p 100 Specimens of pyritae & beautiful masses

of spar [? calcite], also pumice, at top of
PEN-Y-CADER [= PEN Y GADER, 711 131]

1" 116

SH

755 267

CADWGAN, Llanfachreth, Mer.

JRFS (1977) 17

gold trials in quartz

Veins. Unsucc.

CAEFALI MINE, Ffestiniog and
Llandecwyn, Mer.

See PENYRALLT MINE SH64

1" 116

SH 71 21

CAEGWERNOG MINE, Dolgelly, Mer.

See also WNION MINE (?)

TMH(1868), 75 (Au, Pb^{Ag}). Blende; galena; gold.

OS 1" 116 shows "Cae-gwernog" at SH 713 215,
near "Wnion Gold Mine"

1116 SH ~~64~~ 647195
Llanaber.
CAEGWIAN MINE, Bontddu, Mer.

cf GRAIGWEN MINE

JRF-S(1977) 26. NE quartz veins, with
much pyrite, some chalcopyrite,
galena, sphalerite. Working in
1854-5 prob. for gold.

Gilbey (1968) [See CHOGAN] Tellurobismuthite,
tetradymite, gold, quartz, calcite,
poss. nagyagite (?).

1" 116

SH 720 299

CAE-GWYN, Trawsfynydd, Mer.

JRF-S(1977) 14

Trials on quartz veins

in Cambrian

rocks.

For Au?

OS 1" 116 (1947) shows "Old Level (Copper)"
near 72 29.

CAE-HIR MINE, Llanaber, Mer.

See CWM-LLECHFRAITH M. SH 67 19

1" 116

SH 690 205

CAE-MAB-SEIFION, Llanelltyd, Mer.

JRFS(1977)23. Trial on ENE quartz

vein with chalcopysite & pyrite.

One was supposed to be auriferous
E contin. of CLOGAN vein?

1" 116

SH 726 225

CAE-MAWR, Llanelltyd, Mer.

JRFS (1977) 20 Small mine on vein
of copper ore and gold.

1" 116

SH 644 190

CAE-MUR-HYWEL, Llanaber, Mer.

JRF-S(1977) 26. Trial for gold (~1862)
on NE quartz veins.

1"116

SH 735 250

CAE'N-Y-COED, Llanfachreth, Mer.

JRFS(1977) 18

Unsucc Au trial.

CAER-MYNYDOL MINE,

Mer.

JRF-S (1977) 35

Not located.

1" 116

SH

644 368

CAERWYCH, Llandecwyn, Mer.

JR F-S (1977) 12.

Several trial levels

to E from Afon Glyn in Cambrian.

Prob. trial for Cu or Pb ores

CAETHLE MINE, ~~Aber~~ Towyn, Mer

See MELIN-LLYN-PAIR M.

SN 6199

= AB ~~2~~ DOVEY M

(GL) CAMBRIAN M., Llanelltyd & Llanaber, Mer.
= CAMBRIAN CONSOLS

See MAESTRYFAR M.

1" 116

SH 74 25

CAPEL HERMON, Llanfachreth, Merioneths. (I)

See also TURF COPPER WORKS, DOLFRWYNOG M.,
MYNYDD-BACH M.

Allen & Jackson (1985) 9: Around CAPEL HERMON, Riofinex
Ltd proved but didn't work a low-grade disseminated
porphyry copper deposit (Rice & Sharp, 1976),
mineralization related to Late Tremadoc Rhokell
Volc group magmatism (Allen, Cooper, Fuge & Rea,
1976). The TURF Cu mine, peat impreg. w. Cu
minerals from Cu-rich waters draining the
Capel Hermon porphyry Cu deposit (Hall, 1975)
p25: Porph Cu beneath thick boulder clay in
forested valley. Chalcopyrite + a little

molybdenite in veinlets & dissem. Exposed
in a forest road cutting at 748 254
~150m S of car park, where weathering has
produced malachite.

p28 Surrounded by a pyrite halo
exposed along track nr Buarthre ~~rest of the~~ eg
pyrite in quartz at 747 261, 750 263, 752 263
also 769 271, 7903 3066, 737 260, 736 ~~261~~ 267, 728 266
731 266

Armstrong et al. (2003) J. Russ. Soc. 8, 18

Porphyry Cu in Coed y Brenin forest. Prev.
recorded species: Nat Cu, Cu pyr, mal, azur,
covell, bornite, tetrahedrite.

Now at outcrop at SH 748 256 in a

CAPEL HERMON,

Mer. (II)

forest road-cut, tennantite patches to
4 mm with green alter. rim of tyrolite
~~Cycoz En~~ + malachite. [Aldyer, Russ Sa
Neosl (2004) 44, 13 - An SSSI - illegal to hammer]
Bevins (1994) "A mineralogy of Wales"

Rice & Sharp (1976). Trans Inst Min Met 85, 13
Natter, capgr, mal, az,

1" 116

SH

846

307

850

307

CASTELL-CARNDCHAN MINE, Llanuwchllyn, Merioneth.

Gold mine shown on $2\frac{1}{2}$ " OS map SH 83.

AA Archer, N-F (1959), 267. 6 ml SW of Bala. A lode of quartz, ~~malachite~~ pyrite, & chalcopyrite may have produced 2-3 oz Au/week.

FJN (1962) 68 Discov of Au reported to Brit. Assoc. in 1863. worked spasmod. ca 40 yrs. Produced nearly 900 oz. Au. Lode traverses Ordov. sediments & volcanics.

T.A. Readwin. Rep. Brit. Assoc. for 1863, 86.

GR 6/70: Mine is on E side, at 846 307, an approx. N-S line of collapsed opencasts ending in a deepish slope at S end. Much white quartz - nothing else.

JRFS (1977) 14 = CARN-DOCHAN. SH 850 307
Main vein NE in Ordov shales & volcs.
White quartz, minor sulphides. Free gold; small amounts galena, sphalerite, chalcopyrite, pyrite. Last worked 1898

CATHERINE AND JANE CONSOLS,

Ffestiniog e Llandecwyn, Mer.

See PENYRALLT MINE

1" 116

SH 715 233
717 231

CEFN-COCH MINE

Mer.

OS 2½" map shows "Cefn-coch mine (Disused)"
near 715 233

OS 1" map (1947) shows "Gold Mine (Disused)" here

JRF-S (1977) 20 SH 717 231. NE quartz
vein of BERTHLLWYD MINE [qu] with pyrite,
galena, sphalerite. Sulfiferous in places.
Successful for gold for a time

Gilkey (1968) (See CLOGAN). Tellurobismuthite,
tetradymite, gold, quartz, calcite,
poss. nagayagite.

1" 116

SH 735 263

CEFN-DEUDDWR, Trawsfynydd, Mer.

See also MUNYDD CAE'N-Y-COED

JRF-S(1977)17

Trials, prob. for Au in

quartz veins w. galena, sphalerite

Allen & Jackson (1985), 73. A part-filled trial

level for Au? in quartz-pyrite vein

at 737 260 in pyrite zone of CAPEL

HERMON porphyry-Cu deposit has

green & blue stains on walls

1" 116

SH 699 211

CESAILGWYM, Llanelltyd, Mer.

JRF-S(1977) 23 Trial for gold & possibly
Cu ore on quartz veins which may
be E ends of VIGRE-CLOGAU veins.

OS 1" 116 Also shows "Old levels (manganese)"
nearby, ~~at~~ near 690 216

1" 116

SH 751 245

CEUNANT, Llanfachreth, Mer.

JRF-S (1977) 19. Unsucc trial, prob. for
gold, on veins in Cambrian

CHWAREL HEN[^] Slate mines^{SH 58 28} Llanfair, Mer.

~~See~~ LLANFAIR

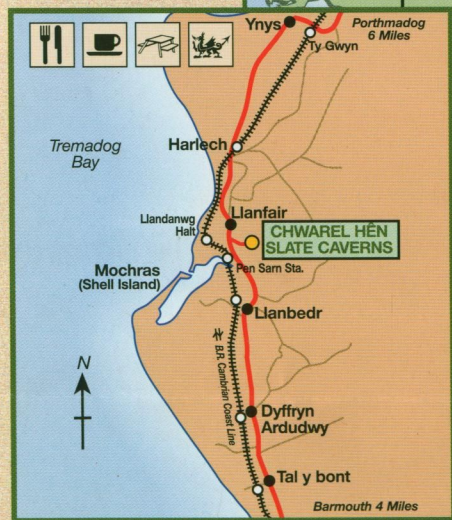
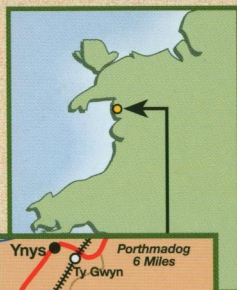
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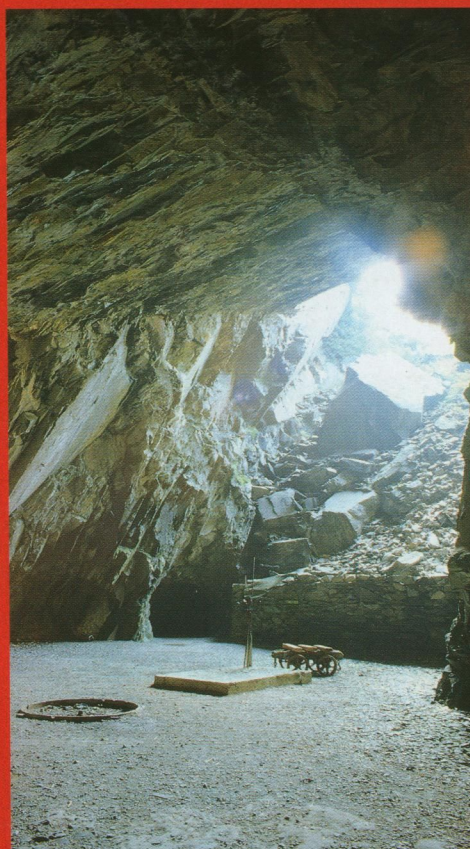
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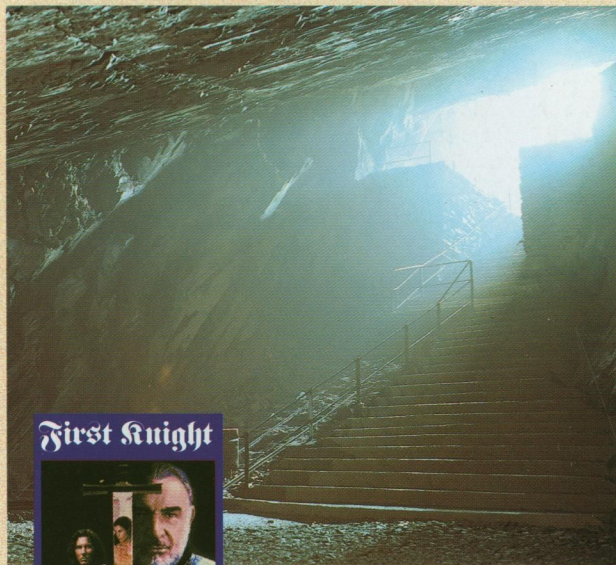
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First Knight



Filmed on location
here!

CHWAREL HÛN LLANFAIR

The entry to this old but important slate mine is through the main tunnel, under the twin arches of the crypt, and into the lofty cathedral cavern. Remember that the tunnels and caverns you are about to see are all man made over a 100 years ago with only a candle for lighting.

The slate in this mine, found in veins between layers of Pre-Cambrian rocks, is among the oldest in the world, and many industrial towns of Britain and Ireland have the original roofs of Llanfair slate.

Descend Jacobs ladder and wonder through the tunnels and chambers, and look for the old drilling holes, and the likeness of a human face in the mighty no 6 cavern. As you emerge from the caverns, you face the breathtaking view of Cardigan Bay, from the Preseli mountains in the south to the Llyn peninsular. Look down at Shell Island and the Artro estuary, and at low tide trace the fourteen mile long natural causeway of St Patrick.

SEPARATE ATTRACTION (Extra charge) Open May-Sept. Children's farm park. Cuddle baby rabbits, bottle feed a lamb, goat feeding, nature and woodland walk.



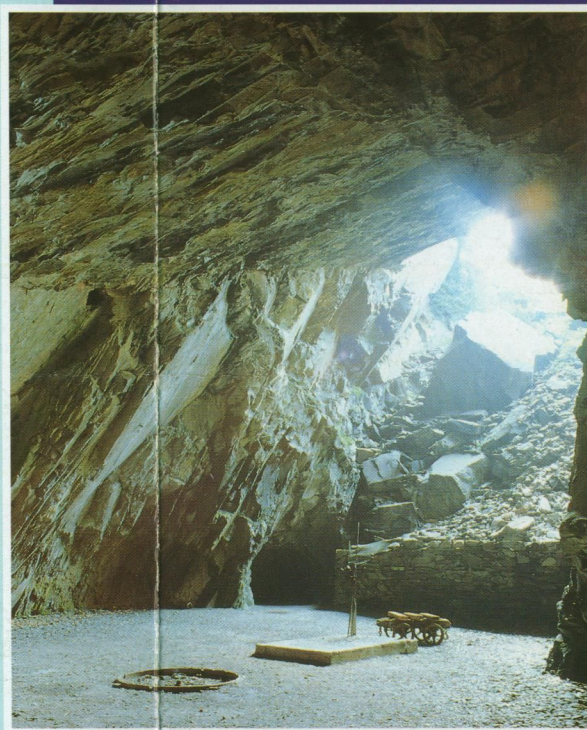
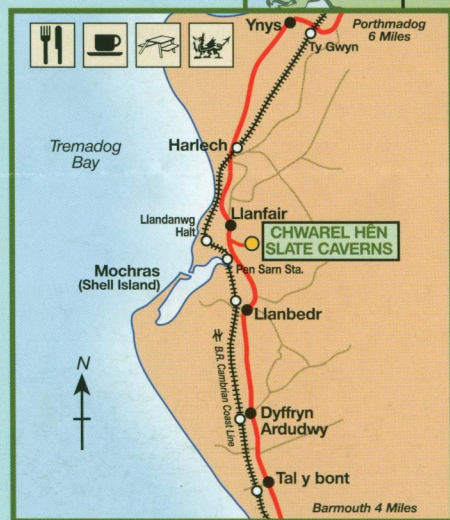
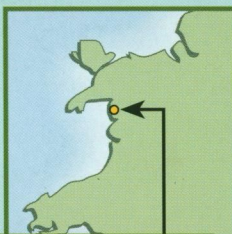
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Chwarel Hên Llanfair

SLATE CAVERNS

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Bontddu 1" 11b

SH 660 190 - St David's Works
SH 68 20 St David's
gold & Cu
Mines

CLOGAU MINE, A Dolgelly, Mer. (I) [6719-6720]

See also VIGRA MINE; BONTDDU, GARTH GELL
Clogau = E of the stream. = ~~near~~ CWM LLECHFRATH, GRAIGWEN
TMH (1868), 76 "Vigra & Clogau Mine" Lr. Sil. (Cu, Au).

Blende; azurite; gold; pyrrhotite;
chalcoprynte.

RSWB Coll. "Tetradymite" in quartz. [= Tellur bismuth]
Cobaltite ? Clogau.

AA Archer, N-F (1959), 265 ff. Clogau = St. David's Mine. A major
gold producer. Open ~~since~~ at some time(s)
since 1913. Cobalt, nickel, & bismuth minerals
occur (Dewey & Eastwood [1925], 46). Extensive list of
minerals - [Andrew (1910)]. Quartz, pyrite,
pyrrhotite, chalcopryrite, gold, galena, blende, (calcite), (arsenopyrite).

AWGR MM(1965) 424 The "tetradymite" is tellurbismuth
of WW Smyth - Mining & Smelting Mag (1862) ↓ ~~359~~ 359

BM 1958, 741 Erythrite. "St David's Works, north of
Genos" NGR "23/660190" (G.H. Francis).
(5H) → probably means 6619(!)

OSI(116) shows "St. David's Gold & Copper Mines" at 68 20
and "St David's Works (Gold & Copper)" at 66 19

BM(NH) specimen. Tellurbismuth in quartz - "ST DAVIDS MINE"
Cardiff Mus (Nat Mus Wales) Erythrite - "Bontddu"

RSW, TBG, JRK, 11/4/64; GREGS 23[?]/5/64. Vol IV p 97-99. Dumps & adit from
stream to top of hill. Just E of stream, at 668196 ^{small} working
mine, with adit, labelled "Clogau St. David's Goldmine Private".
Pyrite, chalcoppyrite, pyrrhotite, quartz, arsenopyrite xls.
At 668195 dumps etc probably = Vigra Mine (qv). Minerals
as above + erythrite, fine powdery → microcline coatings.
Similar near hill top, near 662193

CLOGAU MINE, Bontddu, Mer. (II)

FJ North (1962) 58, 66, 59

Started for Cu later mainly an Au mine, with eventually ca 9 mls of levels, down to 540 ft below surface. Au discov'd ca 1862.

ST DAVIDS GOLD & COPPER CO. formed in 1899 to exploit the Clogau, Vigha & St David's lodes below old workings. Lasted until ca 1910

The Au is in quartz veins from thread to a few inches thick, occas. swelling to 6-9 ft. Au where veins passed through the fine-grained black Clogau Slates, & richest where the veins intersected another

vein-series carrying ores of Cu with some Pb & Zn. These slates rich in pyrite - the Au was visible & deeper yellow than the pyrite.

H Dewey & T Eastwood SRMR6B "Cu" 30 (1925). Worked with VIGRA MINE which is on SW continuation of the lode-belt across Afon Cwm-blechen. Main lode also traced NE into the Afon Cwm-mynach valley. Native gold; chalcopryite; pyrrhotite; pyrite; arsenopyrite; galena; spinelite in white quartz often intergrown with calcite. Erythrite.

ST. DAVIDS MINE in later, deeper workings, with Vigra

CLOGAU MINE, Bontddu, Mer. (III)

WJL (1967) Map, p. 237. Lead mine

Forbes, Phil Mag (1867) Ser 4. 34 339
Article on Au, mainly (see GR card)
lutile among long mineral list by
Readwin

JRF-S (1977) 22-23 ; Section. CLOGAU = ST. DAVIDS.

GOLD MINE at SH 676 201 Cu mine: SH 679 198
Known as St Davids while worked with
VIGRA & others. History complex.
ENE vein system, Massive white

quartz, some chalcopyrite, galena,
sphalerite, secondary oxid. minerals.

Allen & Jackson (1985)

ST. DAVID'S MINE = No. 1 MINE	677 202 (E of Bryntirion Fault)
CLOGAU = No. 2 MINE	675 200
OLD CLOGAU	678 198

Main crosscut & tip is at 672 201

Au-quartz; 2 suites of sulphides (i) sphal, gal, pyr,
rare Cupy. (ii) Py, pyrrh, cupy, rare gal, sphal.

Gangue mainly quartz; also calcite, chlorite,
"sericite".

CLOGAU MINE, Bontddu, Mer. (IV)

Bevins & Stanley J. Russ Soc (1990) 3, 67-69.

Aleksite, $PbBi_2Te_2S_2$, 2nd world loc., closely
assoc. with intergrown galena & tellurobismuthite.
Also two unident phases - new species?

^{JWR}
Gilbey (1968) Unpub PhD thesis, Un. of London

Minor tellurobismuthite with assoc tetradymite, gold
& silver-grey flakes in quartz-calcite from CAEGWIAN
VIGRA, CEFN COCH & FFRIDD GOCH LODES; possibly
also nagyagite (optical data only, not subseq.
confirmed).

Naden J. (1988) Unpub PhD thesis, Aston Univ.

PTO

No. 4 level examined in particular. Two telluride assemblages: ① tellurobismuthite dominated, with minor galena, gold, tetradymite, hessite & altaite.

② sulphide-dominated, with minor galena, rare gold & minor tellurides^{etc}, these being tetradymite, "wehrlite" [= mixt pilsenite + hessite], native bismuth & bismuthinite.

EAST CLOGAU M., Llanaber, Mer.

See GARTH-GELL M. 9H 68 20

WEST CLOGAU M., Llanaber, Mer.

See CWM-LLECHFRAITH; GRAIGWEN M.
SM 6519

1"107, 116

SH 639462

CNIGHT MOUNTAIN, Llanfrothen, Mer.

JRF-S (1977) 6 Trial on S end of NNW
fault trend in N. CNIGHT, prob. for
Pb, Cu.

1" 107, 116

SH 637 464

NORTH CNICHT MINE, Llanfrothen, Mer

JRF-S (1977)6 Trials on NNW fault in Ordov
slates, prob. for Pb & Cu.

1" 116 SH 62 28
COED CRAFTNANT, ~~the~~ Llanbedr, Merioneths

D.E. Bick, in N-F (1959), 308 . An isolated & quite
extensive old copper mine at Coed Crafnant,
10 ml NW of Dolgelley.

RSWB, 15/9/78 Numerous open levels
(~12 seen) and 1 shaft seen on steep
jungle-rock-moss-bog covered
mountainside at 619-622 288-291
a few dumps - rather barren. Grey
shale, some vein quartz with

chlorite patches, a very little
chalcopysite seen; ~~some~~ ~~rarely~~
malachite stains on
upper dumps.

JRF-S "Mer." (1977). CRAFTNANT, Llandedr parish
SH 622 289. Small mine, working in 1850,
closed 1856. Copper ore found at
outcrop; levels driven E. Small
mine, one pocket in ~ EW vein in
Cambrian rocks. Refs given.
See Phillips & Darlington "Records of Mining & Metallurgy" p 266
which records 24 tons ore sold in 1854.
Mining Journal 1850-56, 1859.

1" 116

COED-Y-BRENNIN

Mer.

SH 72
Wales

Coed-y-Brenin Forest SH 72

N of Dolgellau

See CAPEL HERMON

SH 74 25

KC Dunham, "New Scientist" (1974) 61 No 881 (17 Jan)
pp 129-30. "How long will our minerals last".

Mentions Coed-y-Brennin porphyry copper
deposit, as yet undeveloped, in Central
Wales. [AT CAPEL HERMON, q.v.]

COPPER BOG of Menioneth.

See TURF COPPER WORKS

1" 127

SH 617 960

CORBET DOVEY, Towyn, Mer.

JRF-S (1977), ~~22~~ 30. Trial shaft on NS
vein in 1860, within 900 ft. of Aberdovey
harbour, prob. for Pb-e-Cu ores

CORWEN, Merioneths.

See also PENARTH

RSWB, TBG. III, 44 (3/3/63) Noticed ? open adit and
dumps near 115445, near Bwlch Coch, on
Hlantysilio mountain. [Not on OS 6" map]

(GREAT)
COWARCH MINE, Dinas Mowddwy, Mer.
^{1" 116} ^{SH 853 193} ^{PH 1} ^{and 845 189}

TMH(1868), T5. (Pb^{Ag}). Calcite; galena.

OS 1" 116 Has "Lead Mines (Disused)" in Cowarch valley
at SH 855 194

JRFS(1977) 33-34 = CYWARCH = GT. COWARCH
Long history, but never v. successful.
Lead ore, in veins at head of Cwm
Cywarch [853 193] & some which outcrop
on precipitous sides of Craig Cowarth
[845 189]. Pockety mineralisation.
BOB'S V., NORTHEY'S V., JEFFREY'S V., WEST V. (at
Craig Cowarth). (PTD)

Quartz, some calcite, galena, sphalerite,
pyrite, chalcopyrite. Worked ~ 1770
1859, intermittently.

CRAFNANT, Llanbedr, Mer.

See COED CRAFNANT SH 62 28

CRAIGWEN M., Llanaber, Mer.

See GRAIGWEN M. SH 65 19

1" 116

SH 836 174

CRAIGWEN MINE, Mallwyd, Mer.

cf GRAIGWEN or CRAIGWEN M., Llanaber, 655 190
See also PENNANT M.

JRF-S(1977) 84 = PENNANT & CRAIGWEN M.

Worked with PENNANT M. at times

on Silver-Lead vein, NW; & Benjamin's V.
NEW.

Quartz, calcite, pockets of
baryte. Much pyrite; galena,
sphalerite, chalcopysite.

3 main levels & sump to ~ 60 ft
below lowest adit.

Active 1848 ~ 1855.

1" 116

SH 760 165

CROSS FOXES, Brithdir e Islaw'rddree, Merioneths

FJN(1962) 87. Worked ca 1717 and again in
early 19th cent, from narrow open trenches
Oolitic iron-ore also by the side of the
ancient Ffordd-ddu.

OS 1" map shows "Ironstone quarry" at SH 760 165.
(1947)

1" 107, 116

SH 671 417

CWM AFON, Ffestiniog, Mer.

JRF-S(1977)10. Started 1859, for ^{short lived.} Cu,

Chalcopyrite in 9 ft. vein, E-W,
in Cambrian rocks.

(Mining Journal, 1859-60)

1" 107, 116

SH 636 457

CWM CROESOR, Llanfrothen, Mer

JRF-S(1977) 6 Trial, prob. for Pb, Cu on
a vein striking a little E of N in
Ordov. slates.

1" 116, 107 SH

739417

CWM CYNFAL MINE, Ffestiniog (e Maentwrog), Merioneth.
of CWM CYNFAL, TOWYN 614040

SRMRGB XXX (1925).

Levels on S side of Ffestiniog-
bala road, in Cwm Cynfal. Greenstones S of lode,
Lingula flags N. WSW lode, 18" wide, has been
traced ca. 1 ml. At one place a big pocket was
found. Chalcopyrite e peacock ore in quartz.

A second lode shown on Geol Map, branching NE,
over $\frac{1}{2}$ ml long.

AA Archer N-F (1959), 268.

An ENE lode has copper ore in
quartz. Ave. 18 in. in width.

GR 6/70 At SH 736417, on very steep hillside.

Open adit; smallish dumps; massive
white quartz, chalcopryrite, Cu staining.

JR F-S (1977) 11. ENE vein in Ordov. slates
e volcs, of quartz with pockets of
chalcopryrite

1" 127

SH 614 010

CWM CYNFAL, Towyn, Merioneth.

cf CWM CYNFAL, Ffestiniog, 739417.

JRFS (1977) 27 Trial levels prob. for
Pb or Cu in Ordovic.

1" 117

SH 896 193

CWM DYNIEWYD, Llanymauddwy, Mer.

JRF-S(1977) 32. Trial level to S from
Afon Pumryd for 366' as X-cut,
driven 1853-4, abandoned ~ 50 ft
short of E extension of Red Dragon
mine vein [?]

1"116

SH

738

277 (MINE)

742

282 (MINE)

CWM EISEN MINES, Llanfachreth Mer.

[~~CWM~~ HEISIAN M.] See also CWM EISEN ISSA MINE
~~EGWYNFYNYDD~~ M., EGWYNFYNNYDD M.

FJN (1962), 65. A. Dean in 1843 ^{announced} ~~published~~ the pres. of
Au in debris from Cwm Eisen lead mine,
 in N. Wales. Published 1844 @ York meeting
 of The Brit. Assoc. Rept. Brit. Assoc. Trans. 8
 Sections, p. 56.

D.E Bick, in NF (1959) 308. CWM HESIAN. Pb/Zn mine

GEL (1858) Gold, with sphalerite & quartz;
galena - auri-argentiferous

D.C. Davies (1888) Oxides of iron, containing
silver and gold. Also mentions
CWM EISEN ISSA MINE

WJL (1967) Map, p 237. Lead mine - CWM HESIAN

JRFS (1977) 16. A set of NE veins intersect a
set of NW veins. Orig. lead mine, worked
for gold mid. 19th cent; not v. successful.
Quartz, calcite, much pyrite some
chalcopryite, galena, sphalerite, baryte.

Allen & Jackson (1985) 75. CWM HESIAN WEST M.
at 738 277 - lead, some gold.
CWM HESIAN EAST Au mine at 742 283.

1" 116

SH

~~740 269 (2)~~
737 269

CWM EISEN ISSA MINE, Llanfachreth Mer
= CWM HEISIAN ISAF
See also CWM EISEN M.

DC Davies (1888). Gold mine.

OS 2½" map shows "Cwmheisian Isaf" at 740 2695.

JRF-S (1977) 16. CWMHEISIAN ISAF ENE veins
traced mid 19th Cent for gold. Quartz,
pyrite, chalcopyrite, galena, sphalerite

= CWM HESIAN
CWMHEISIAN MINE, Llanfachreth, Mer.

[= CWM EISEN MINE qv.]

In ~~Mawddach~~ Valley, near "Gwyn-fynydd" Mine.

DE Bick, in NF (1959) 308: Cwm Hesian, Rb, Zn mine

See also CWM ~~EISEN~~ ISAF

See also CWM EISEN ISSA

1" 116

SH 670 196

CWM - LLECHFRAITH M., Llanaber, Mer.

JRF-S(1977) 24-25. On main ENE veins

of VIGRE-CLOGAU system. Tried for Au
in 1862. Quartz, some calcite,
with pyrite, chalcopyrite, galena,
sphalerite.

Allen & Jackson (1985). LLECHFRAITH ADIT of
W. CLOGAU mine at 667 196 - gold find
of 1980

1" 116 SH 63 31
CWM-MAWR, Llanbedr, Merioneths.

OS 1" 116 (1947) shows "Old Levels (Manganese)"
in square 63 31

Rswob 15/9/78 About 6 open levels
around S & W sides of knoll at
633 317, with minimal dumps.
Shale with much black
pyrolusite staining & coating,
some compact banded massive

dull pink manganese ore
(rhodonite + rhodochrosite + spessartine
presumably), with scattered tiny
pyrite xls & thin pyrite-containing
quartz cross-veins

1" 116

SH 675 213

CWM MYNACH, Llanaber, Mer.

JRES (1977) 23. Unsucc. trial for gold
e prob. Cu ore on a ~NE vein

OS 1" 116 (1947) shows "Manganese mines"
at 675 213 & 670 226.

1" 107, 116

MSH 670 466

CWMORTHIN, Llanfrothen, Mer.

JRF-S(1977)6 Trial for Pb said to
contain 26 oz Ag/ton, on a vein in Ordov.
(Mining Journal 20 July 1850) 30 ft of
level driven ~~so far~~⁴ by then. Exact
position unknown MSH 670 466

P. Thomson, Priv. Comm 14/7/85. Epidote, quite
good but fractured xls to $\frac{1}{2}$ inch in
vein quartz boulders in scree from

crag. high up on NW side of the
corrie, not seen in situ at W end
of the crag. [Crag $\approx 67 \times 47$]. Nearby
a coarse felspathic vein nearly
pegmatitic in grain size. Asbestos
found above crags.

BMS Newsl (2001) 60, 16 D. Green had fine specs of
anatase from "CWMORTHIN QUARRY" (no county
given) Also BMSN ('02) 61, 12.

I" 107, 116

SH

658 475

CWM-Y-FOEL, Llanfrothen, Mer

JRF-S (1977) 5. Trial level, for Pb & Cu(?)
unsuccessful, on NS vein in Ordov.
slates.

CWM-Y-SWM MINE, Dolgelly, Mer.

? = CWM EISEN MINE, q.v.

TMH(1868), 76. Blende; galena; gold; chalcoppyrite.

CWT-Y-BUGAIL SLATE Q., Blae.-Ff., ~~Gran~~
Mer.

See MANOD Q/s

1" 116

SH 627 124

CYFANNEDD-FAWR, Llanegryn, Mer.

JRF-S(1977)27 N-S quartz veins in
slates & Ordov. volc's, with pyrite,
chalcopysite, galena (40 oz Ag ton⁻¹
in 1863), sphalerite.

Opened 1851; pockety; worked for
Cu & Pb; closed by 1863.

CYNWYD, Llangar, Mer.

WJL (1967) Map, p. 237 Lead mine

JRF-S (1977) 35 Trial for Pb ore,
no details known. SJ 057 411

[= centre of Cynwyd village & prob. not
location of mine!]

CYWARC MINE, Llanymawddwy, Mer.

See COWARCH MINE SH 8418, 85 19

DINAS MAWDDWYMer.

of COWARCH M.

WJL (1967) Map, p 237. Lead mines - several indicated

R. Warner "2nd Wales" (1800) From Dinas-y-Mowddu
 [= DINAS MAWDDWY] took Dolgelley road for
 2 mls, then climbed Nth of CRAIG-GWYN
 [? N or S of road] [of Graigwen mine, Bontddu] to see some
lead mines. Shaft filled in, mills destroyed,
 but nice view from top. [NB Nant-y-Graig-wen stream
 on N at 8318-?? of DRWS Y NANT]

1" 116

DIPHWAYS

SH 670237
Mer

OS 1" 116 (1947) shows "Mines (disused)" at
670 237 (Mn?)

CoHerrell et al (2010) J. Russ. Soc. 13, 47-52.

Hübnerite, dark brown blades in bedded
Mn ore from blocks at base of incline below
Diphways mine SH 6797 232b. In quartz-rich
alpine veinlets; also rhodochrosite veinlets
with sub-mm magnetite xls.

1" 116

SH 731 380

DÔL-IDDINAS, Trawsfynydd, Mer.

JRF-S(1977)13 Trial in quartz veins
in Cambrian. For Au?

1"116

SH 73 20

DOL-FAWR, Llanfachreth, Mer

Allen & Jackson (1985). At 731 206
microdiorite exposed with spots of
epidote with pyrite centres - filled
vesicles. [Along "Precipice Walk"]

1" 116 SM 747 256
Llanfachreth

DOLFRWYNNOG MINE, Dolgelly Mer.
See also TURF Cu WORKS.; NORTH DOLFRWYNNOG M.

TMH(1868), 76. (Cu, Au). Blende; galena; gold; quartz.

AA Archer N-F(1959), 266. Mentioned in discussion of
gold mines. "...possibly...impregnation of the
country rocks."

p 267! Copper ore from Dol-Frwynnog Mine sold at
Swansea 1824-1847

H Dewey & T Eastwood, SRMRGB 30 "Cu"(1925). Cu mine,
later producing gold. Working in 1919.
Chalcopysite; arsenopysite; pyrite; quartz;
some calcite.

DC Davies (1888) Chief Au-bearing lode was
of quartz with a "branch of baryte
running through it"; on each side of the
baryte was lead-ore, in places highly
auriferous.

GeL (1858) Gold.

WJL (1967) Map, p. 237 Lead mine

JRFS (1977) 18. NE quartz veins w. much pyrite;
chalcopryite, calcite, gold.
History

Allen & Jackson (1985) Tips at 748255. Chalcopryite-
pyrite-quartz veins mined for Au. 76 m S of
car park

1" 116

SH 752 263

NORTH DOLFRWYNOG MINE, Llanfachreth Mer.

See also DOLFRWYNOG MINE

D.C. Davies (1888). Mentioned.

JRF-S (1977) 17. = HAFOD-OWEN. 2 veins,
EW & N-S, tried 1853. Quartz, pyrite,
some chalcopyrite. A little galena,
sphalerite. A little gold produced.

DOLGELLY ~~Mer.~~ Mer.

See also CROSS FOXES; PRINCE OF WALES M.

TMH (1868), 75. Slate. Blende; epidote; galena.

GeL (1858) Epidote, with calcite; sphalerite.

Home Off. Aband Mines Plan R.163 "DOLGELLEY MINE,
Llanelltyd" → [SH 7119]

Johnson Ann. Mag. Nat. Hist. (1847) 19, 426.
"Infusorial earth"

1" 127

SH 655 044

DOLGOCH, Towyn, Mer.

JRFS(1977)28. Trials prob. for
Cu or Pb.

1" 116

SM ~~116~~ 61 277

DOL-Y-BEBIN

Mer

OS 1" 116 (1947) shows "Manganere mine" at
SM 61 277.

1" 107, 116

SH 680 422

DÔL-Y-MOCH, Ffestiniog, Mer.

JRF-S (1977) 10 Small mine, probably
for Cu, poss. Pb also, on veins in
Cambrian

DRWS-Y-NANT MINE, Llanfachreth, Mer.

See BENGLOG 314 80 23

1" 116

SH 877 207

DYRYSGOL, Llany mawddwy, Mer.

JRF-S (1977) 31 Trial for Pb & possibly
Cu ores, @ ~ 1800' OD, ~ 1851, on
S slopes of Dyrsgol.

DYSRNANT MINE, Towyn, Mer.

See BRYNDINAS 31+ 6599

EAST CAMBRIAN MINE, Llanelltyd, Mer.

See FOEL ISPRI MINE SH 70 20

1" 107, 116

SH 70 42

FFESTINIOG, Mer.

TMH(1868), 76. Lr. sil. sl. Erythrite; galena.

BMS Newsl. (1997) 47 3. BMS Coll. D. green: quartz
"FFESTINIOG QUARRY"

1" 116

SH 708 290

FFRIDD-BRYN-COCH, Llanddwywe-uwch-y-graig, Mer.

Allen & Jackson (1985) 1cm magnetite-rich seams
in siltstone at 708 290

1" 116

SH 729 345

FFRIDD-DDU, Trawsfynydd, Mer.

JRFS (1977) 14. Trial shaft on quartz
veins in Cambrian rocks. For Au?

1" 116

~~SH 747244~~
SH 747244

FRIDD-GOCH MINE, Llanfachreth, Mer.

H Dewey & T Eastwood, SRMR00 30 "Cu" (1925) Cu/Ag mine

Levels on E bank of Afon Wen. Quartz;
pyrite; chalcopryite. Copper & gold
formerly raised.

JRFS (1977) 19. 747244. Vein a little E of N,
~ 3ft quartz some pyrite, a little
chalcopryite. Prob. trial for gold.

Bovine & Sharpe (1982) NMW 27.III. GR469
illustr. No. 19 Gold in quartz

Gilbey (1968) [See CROAU]. Tellurobismuthite,
tetradymite, gold, quartz, calcite, poss.
nagayagite (?)

Raade et al (1985) A "woodwardite" (on
bracken!) from NMW 27.III GR464 is prob.
the Cu-analogue of glaucozerinite.

1" 127

SH 630 993

FFRIDD - HAFODWEN, Towyn, Mer.

JR F-S (1977) 28

Frial level on NW

vein, probably

for Pb ore.

FIGRE MINE, Bontoldu, Mer.

See VIGRA MINE

1" 116

SH 738 214

FOEL CYNWCH, Llanfachreth, Mer.

JRF-S(1977)21 Trials, prob explor. for
SW contin. of GLASDIR copper deposit.

Allen & Jackson (1985). Microdiorite
outcrop at 738 215 has abundant
1cm pyrite cubes.

FOEL DDU, Llanbedr, Merioneths.
cf FOEL DDU, Llanelltyd.

PA Mohr. MM 31 319 Chlorite-garnet rock in
wall of an old mine level on Foel
Ddu, $\frac{1}{2}$ ml NNW of Pont Cerig, Nantcol,
as soft bright green slightly cleaved
mudstone immed. below the pyritiferous
mudstone underlying the Mn ore horizon.
Is rock of garnet, chlorite & quartz
OSI" map shows "Old level (manganese)" at
SH 634 280, $\frac{1}{2}$ ml NNW of Pont Cerig.

1" 116

SH 712 223

FOEL DDU, Llanelltyd, Merioneths.

cf FOEL DDU, Llanbedr.

JRF-S(1977)20 Trial on veins, probably
for Cu ore & gold.

FOEL GOCH, Pennal, Mer.

See BRON-YR-AUR. SH 73 02

1"116

SH 706 211

FOEL ISAF, Llanfachreth, Mer.

JRF-S (1977) 21. Unsucc. trial for gold
e poss. also copper ore.

1"116

SH 704 201

FOEL ISPRI MINE, Llanelltyd, Mer.

JRFS (1977) 21-22. = EAST CAMBRIAN = VOEL
= IMPERIAL = MOEL ESBIE.

NNE quartz vein w. much pyrite; also
galena, sphalerite, chalcopyrite.
Miniferous in places. Started ~1856
Aband. early 20th Cent.

Allen & Jackson (1985) VOEL M's - tip of old
Pb-Zn mine at 704 200. Many adits on

E-W quartz veins with sphalerite,
galena, minor other sulphides. Also
gold. worked 1855-1900. An Adit at
706202-tip has much sphalerite.

FOEL REIDE, Llanuwchllyn, Mer.

See FOEL RHUDD

1" 117

NSH 893 242

FOEL RHUDD, Llanuwchllyn, Mer

JRFS (1977) 31 Trial for Pb, ca 1848-1850

Exact site not known, high on N
slopes of Foel Rhudd, at ~ 2000' OD.

= FOEL REIDE = MOEL REIDE

1" 116

SH 796 243

FOEL TRAIAN, Llanfachreth, Mer.

JRF-S (1977) 19. Unsucessful trial for gold.

1" 116

SH

744 264

FOEL-WEN

Llanfachreth, Mer.

JRFS (1977) 17

Trials on quartz

veins w. galena, sphalerite, much
pyrite. For Au?

1" 127

SH 747 030

FOEL-Y-FFRIDD, Pennal, Mer.

JRF-S (1977) 35.

Trial for Pb, ~1760

See WJ Lewis "Lead Mining in Wales" (1967) 162

1" 116

SM 740 248

FRIOG, Llanfachreth, Mer.

JRFS (1977) 18 Unsucc. Au trial

1" 117

SH 90 39

FRONGOCH, Bala, Mer.

P. G. Sanford, Geol Mag (1893) 10 160. Fullers
Earth of Vrongoch, analysed.

[? Montmoullonite]

1" 116

SH

729 252

GALLT-CEFN-DEUDDWR, Trawsfynydd, Mer.

JRFS(1977)18 Trials, for Au?

1" 117

SH 897 214

GALLT-Y-MAEN MINE, Llanymawddwy, Mer.

JRF-S(1977)31 A set of trials on
two veins, Copper vein 12" e Lead
vein 18 " wide. Working 1851

1" 107, 116

SH 740 439
~ 738 437 (RF-S)GAMALLT MINE, Ffestiniog, Mer.

SRMROB XXX (1925). Levels immed. S of Afon Gamallt and within $\frac{1}{2}$ ml. of Llynan Gamallt. Slates, ashes & conglom. Two adits:

Upper: Lode W. Mixed sulphides, incl. chalcoprynite, galena, & blende.

Lower: Lode W, 4-ft. Quartz & calcite, with isolated lumps of galena, blende, & pyrite.

AA Archer N-F (1959) 268. An ENE lode has galena, chalcoprynite & blende. Said to have 17 dwts gold per ton, but Cu less than 0.5 %. (Dewey & Smith, [1922] p 54).

WJL (1967) Map, p 237. Lead mine

JRF-S (1977) 11 ENE vein in Ordov. slates
e volcs. Much pyrite, some
chalcopyrite galena e sphalerite, in
quartz, some calcite. Ore said
to have been auriferous.
3 trial levels, last in ~ 1920.

1" 107, 116

SH 61 41

GARREG, Llanfrothen, Mer

Ike Wilson, Riv Comm 2/77 Old mine, near
617 423 has adit near road,
bricked up after a short way.
Traces brookite with quartz.

Boulders near 625 433 near
road have traces brookite with
quartz & calcite

1" 116

SH 688 201

GARTH-GELL M., Llanaber, Mer.

JRF-S (1977) 25. = EAST CLOGAU M.

Small mine for gold after ~~the~~ 1865;
quartz, minor sulphides.

1" 116

SH 769 395

GE FAIL-Y-MINERS, Trawsfynydd, Mer.

JRF-S(1977) 13. Trial shafts & pits on 2
veins in Cambrian rocks in 1852, 1862
for Cu ore. Quartz veins, with
Pb, Zn also. Mining Journal 1852, 1862.

1" 116

SH 738 328

GELLI GAIN, Trawsfynydd, Mer.

JRF-S(1977) 14

Trial shaft on

SE vein in Cambrian rocks. For Au?

1"116

SH

732 223

GELLI-GEMLYN, Llanelltyd, Mer.

JRFS (1977) 20. Unsucc. trial^{prob.}₁ for
gold, on quartz veins.

GLAN CLWYD LEAD WORKS, Mesoneths

See MELIN-Y-WIG

1" 116

SH 630 166 (?)

GLANYMAWDDACH MINE, Mer

JRF-S(1977)35.

A copper mine,

stated to be near Barmouth

[SH 6115]

OS 1" 116 has "Glan-y-Mawddach" at
SH 630 166.

Llanfachreth 1" 116 SH ~~739~~ 225
GLASDIR MINE, ~~Dolgellu~~, Mer. (I) 742 224

TMH (1868), 76. (Cu, Au). Chalcopyrite

AA Archer, N-F (1959), 265 ff: Produced 1781 oz. gold 1912-1914.
Ffestiniog Flags impreg. with chalcopyrite, from
which gold extracted 1872 → 1914. Closed 1914.
Lead ore also. "There is impregnation of
the country rocks".

RSWB, TBO, JRK. 12/4/64 Vol IV p 99. GR, GS. 25[?]/5/64.

chalcopyrite; galena; quartz; calcite; some
malachite microglobbs; (GR/S) (green globular)

The gibbsite of side 4 (qv)?

FJN (1962) 58-9 Ore not a true lode but a 50' thick
impregnation.

HDewey & T Eastwood (1925) SRMRGS 30 "Cu". V. little quartz;
Calcite; some malachite

AR Andrew, Geol Mag (1910) 47 159, 201. Pyrite,
bornite, chalcopryite, chalcocite, native gold.

GR 5/69; GR, GS 5/64. Mining remains in reafforested
area. New roadcuttings have exposed large quartz
veins with rare traces malachite. Main dumps at
7415 2260 sloping steeply from the level mine-
track (which joins road at 7430 2265) down to

GLASDIR MINE, Llanfachreth, Mer (II)

The stream below. Much white vein-quartz
with massive chalcopysite & calcite;
malachite(IR) & Cu-staining common
[NB "glasdir unknown" IR(GR) M185 & others, BM X-ray

JRFS(1977) 20-21. Copper mine, also gold.
Large scale. Grit impreg. with pyrite
& chalcopysite, cemented by calcite
Allen, PM & Easterbrook, GD. Trans Inst Min. Met (Sect.B)
(1978) 87 157-161. [MA 79-2173] "Mineralised

breccia pipe & other intrusion breccias in the
Harlech Dome, North Wales. Glasdir Cu
deposit, worked → 1914 is interpret'd as a
mineralised intrusion-breccia pipe, one
of a number of such pipes, dykes &
gills of intr-brecc, in Cambrian on
E side of H. Dome 'prob. genet. related
to the Rhobell volc. group magmatism of
late Tremadoc age.

GR. IR-L 854 (1986) gibbsite, globules on
allophane.

Allen & Jackson (1985). In breccia pipe, Late Tremadoc Rhobell Volc
group magmatism (Allen & Easterbrook, 1978)

1" 117

SH 897 184

GLOYW NANT, Llanymawddwy, Mer.

JRF-S(1977)32. Level to N from E
side of the Nant to seek EW
veins.

1" 116

SH 652 267

GRAIG - UCHAF

Mer,

OS 1" 116 (1947) shows "Manganese mine" at
652 267

Llanaber^{1" 116}
PH

SH 655 190

GRAIGWEN MINE, A Bontddu Mer.

cf CRAIGWIAN M.

cf CRAIGWEN M., Mallwyd, SM 836174.

AA Archer N-F (1959), 265.

Gold mine. Has been open
at some time since 1913. Subject of
a report in 1942.

Quartz, pyrite, pyrrhotite, gold, galena,
blende, (calcite), (arsenopyrite).

Home Office List of Mines (1950) lists "Craigwen
mine" as a working gold mine, at Bontddu.

JRF-S (1977) 25-26 CRAIGWEN M. On
ENE quartz veins, poss. contin of

St. David's M's veins, with pyrite, chalcopryite,
galena, sphalerite. Auriferous.
Worked from 1854; from 1862 as WEST
CLOGAN; later part of ST. DAVIDS.

GWYN MINE

Dolgellau

Mer.

See GWYNFYNYDD MINE

SH 73 28

GWYNFYNYDD MINE, Trawsfynydd Mer. (I)

See also E. GWYNFYNYDD M; CWM EISEN M's

AA Archer NF (1959), 265. = GWYN MINE. A major gold producer.

Open at some time since 1913. A possible
pyrite prospect.

Quartz, pyrite, pyrrhotite,
chalcopyrite, gold, galena, blende, (calcite)
(arsenopyrite). Mineral list v. Andrew (1910)

The subject of a report in 1940.

DE Bick's contribution: 6 in rub of arsenopyrite in the Chidlaw lode

FJN (1962) 66. Au Discov. in 1864 in the lead mine,
but not much exploited until rich lode
discov. in 1888

"The Times" 18/11/69 - also

M/C Evening News 7/1/70, p11

"Re-Mining" of London has bought rights to the mountainside, at the gold mine of Gwynfynydd in the upper Mawddach valley. Rich in lead & zinc ~~the~~ ignored by gold miners. To be opencasted on vast scale if Govt. permits.

Brewer FM, Cox JD, Morris DFC Geoch & Cosch Acta (1955) 8 131
Ge in sphalerite, determined spectroscopically.
Samples from Gwynfynydd mine had less than 10 ppm Ge.

DC Davies (1888) Quartz lodes with minute specks of native gold, also a gold-coloured mica containing a little gold

GWYNFYNDD MINE, Trawsfynydd. Mer (II)

WJL (1967) Map, p237. Lead mine - "GWYN"

Pres 2/10/78 - RSWB 78-

Pickeringite white fibrous nodules,
christened "Puffed wheat one". X-rayed
by BM.

JRF-S (1977) 15. Several NE veins of quartz
w. chalcopy. & pyrite common, also galena
sphalerite arsenopyrite, calcite.
Secondary ores of Cu, Pb & Zn in

shallower parts.

Orig. a Cu/Pb mine.

For Au, 1864-1907, intermitt $\rightarrow$ ~1938.

Most Au in shallow workings above
adit. MAIN, BRIDGE, CHIDLOW VEINS.

Allen & Jackson (1985). ~~At~~ No. 6 adit is at
738 281. Robert's Level at 740 282

ENE quartz veins with galena, sphalerite,
minor pyrite, rare chalcopyrite, gold

At 741 282 "OWENS DISCOVERY" is thick ENE
quartz v. with py, sphal, gal, copy; worked
across river at CWM HESIAN E Au mine 742 282

GWYNFYNYDD MINE, Trawsfynydd, Mer. (III)

Mine Tours at Gwynfynydd. Gwynfynydd Gold Mine reopened this year in conjunction with a shop, 'Welsh Gold', at The Marian, Dolgellau. A courtesy bus takes visitors from the town to the mine during the season (April - October). Last summer, the gold manufacturing and lapidary sections at the shop (which is in a huge car park) were not yet ready but their opening seemed imminent. Up at the mine, Robert's Level has been reopened and connected with the No. 6 adit. A crusher and Wilfley Table are underground and panning in the Mawddach is forbidden!

An accompanying newspaper article - 'Gold Struck at old Welsh mine', states that Nick Warrell, Gwynfynydd's owner, and his team of eight have retrieved gold from Chidlaw's Lode, the vein struck by William Pritchard Morgan who went on to extract £12m worth of gold. Mr Warrell has spent £500,000 on the shop which sells a range of gold items.

1" 116

^{SH 742 283}
EAST GWYNFYNYDD MINE, ~~transf~~ Mer
See also GWYNFYNYDD M., CWM EISEN M^s.

JRFS (1977) 15-16 On E contin. of
Gwynfynydd veins. Explored for gold.
= BEDD-Y-COEDDWR = MARINA GOLD MINE

Allen & Jackson (1985). At 742 283 are
adits, shafts & tips of BEDD-Y-COEDWR
or PRINCESS MARINA M. (so-named as
produced gold for her ring). The
flooded VAUGHAN SH. is just above the
river, by the path.

1" 116

SH 644 361

GYRN, Llandecwyn, Mer.

JRF-S (1977) 12

Trial levels W into

Cambrian on slopes of Y Gyrn, prob.
for Cu or Pb.

1" 107, 116

SM 637 413

HAFOD-BOETH, Ffestiniog, Mer.

JRF-S (1977) 8 - Trial for Pb on
EW vein in Cambrian rocks, poss.

extension of EW vein of BWLCH-Y-PLWM

HAFOD OWEN, Llanfachreth, Mer.

See N. DOLFRWYNOG M 54 75 26

HAFODTYBACH, Dolgelly, Mer.

See ~~also~~ HAFOTTTY MINES.

TMH(1868), 76.

Haematite; magnetite.

1" 107, 116

SH 643 433

HAFOD - UCHAF, Llanfrothen, Mer.

JR F-S (1977) 6. Small mine, probably
for Pb & Cu in veins in Ordov. slates.

HAFOD-Y-MORFA M., Llanelltyd, Mer.

See PRINCE OF WALES M.

1" 116

SH 61 18-18

HAFOTTY MINES, Llanaber, Mer.

See also HAFODTYBACH.

OS 1" 116 shows "Hafotty Mines" at above loc.

TMM (1868) 76 HAFODTYBACH, Dolgelley, Mer:
Haematite, magnetite

Allen & Jackson (1985). HAFOTTY M. Workings
to W of path. Incline at 6159 1779; tips
& excavations follow downhill [to N]

At 6155 1724 a small trial shows Mn-shales
with ~~spessart~~ spessartine nodules,
weathered, with a purplish-brown parting

1" 116

SH 769 2715

HAFOTTY-HENDRE, Llanfachreth, Mer.

Allen & Jackson (1985). At 769 2715
abundant 1 cm pyrite cubes and
intricate epidote veining.

1" 116

SH

58 31

HARLECH, Mer.

TMH (1868), 76.

Pyrite.

OS 1" 116 shows "Levels (manganese)" at 5931,
just NE of Harlech

HENDRE MINE, Llanenddwyn, Mer.

See MOELFRE MINE

1" 116

SH 671 201

HENDRE FORION MINE, Llanaber, Mer.

JRFS (1977) 22

Mid-19-th. Cent trials

for gold in quartz veins.
glowing reports in Mining Journal; much
spent; little results & soon abandoned.

Elanfrothen 1" 116 SH 60, 398

HENDRE HENYDD (Portmadoc), Merioneth

[cf FRONOLEU, Caern]
cf MINFFORDD QUARRY

Mrs. N. Meddows Taylor (1967) Donation to G. Mus:

Anatase

1" 116

SH 7 1

HURST'S MINES,

Mer.

JRF-S (1977) 35

Not located. Stated

to be near

Dolgellau [SH 72 17]

IMPERIAL MINE, Llanelltyd, Mer.

See FOEL ISPRI M.

1" 116

SH 730 386

LLAFAR, Trawsfynydd, Mer.

JRF-S(1977) 13 Trial shaft on vein
in Cambrian. For Au?

1" 116

SH

LLANABER MINE,

Mer.

JRF-S (1977) 35 "Near Barmouth". Not
located.

1" OS 116

Llanaber

~~W. 281 18~~

SH 60 18

LLECHFRAITH ADIT, Llanaber, Mer.

See CWM-LLECHFRAITH M stl 67 19
(q W. CLOGAU MINE qv)

1" 107, 116

Around

SH 700 470

LECHWEDD QUARRIES, Blaenau Ffestiniog, ^{Mer.} ~~Caern.~~
See also OAKLEY QUARRIES; BLAENAU FFESTINIOG etc.

BSWB ~~at~~ ^{TBG}, 7/8/62. Vol II p. 97-8. Big working slate
quarries on E side of road, opposite Oakeley
Quarries, ca 1 ml N of Blaenau Ffestiniog.
Fine alpine-type clear quartz crystals in
cavities in quartz veins, with muscovite,
pyrite, chlorite, ? ilmenite. Quartz xls
met with "When driving through the hard"
quarryman. "Llechweddt" is pronounced "clegworth".

III, 41 (2/3/63) quartz.

Some microsc. pyrite
xls on the quartz are
elongated.

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1836

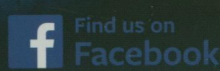
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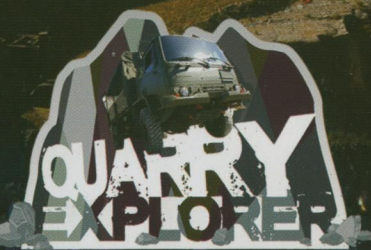
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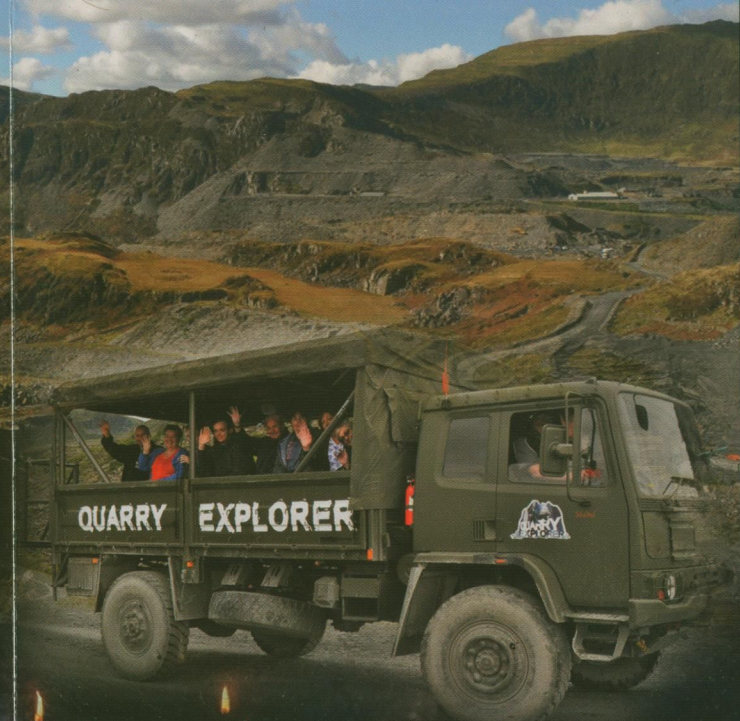
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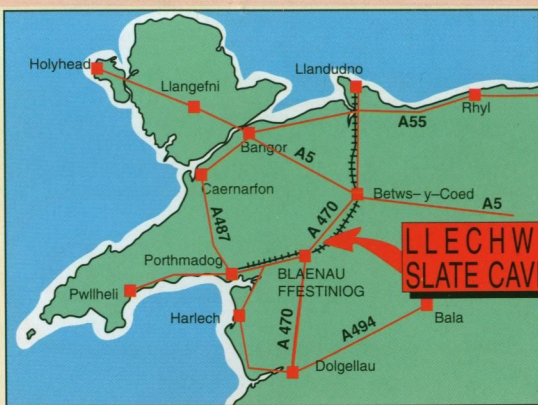
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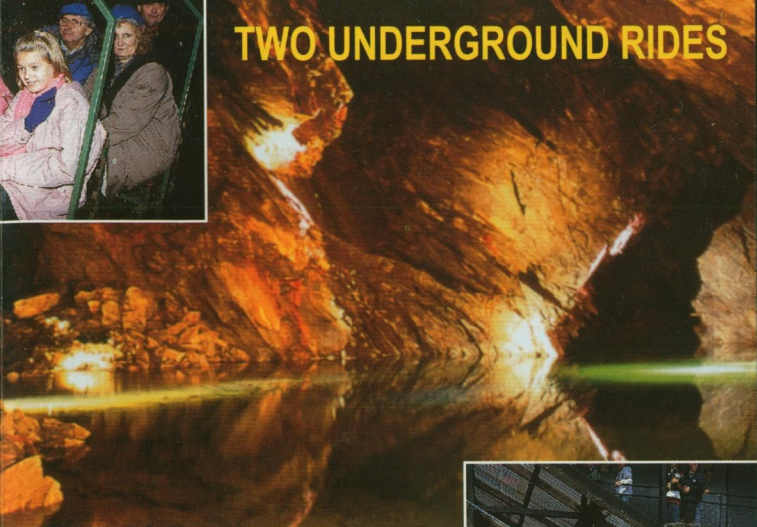
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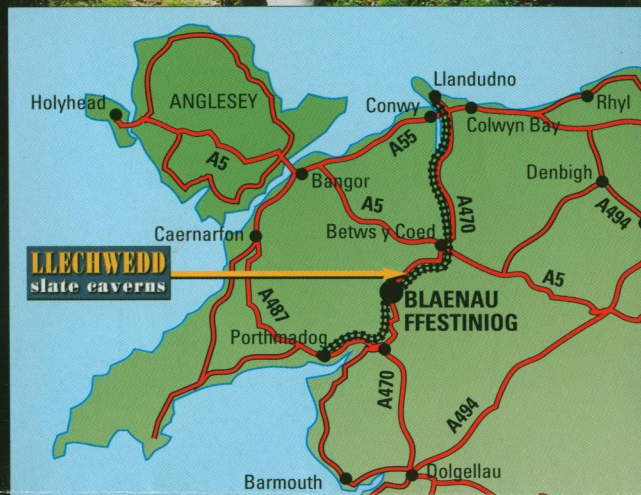
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Reductions for both rides.

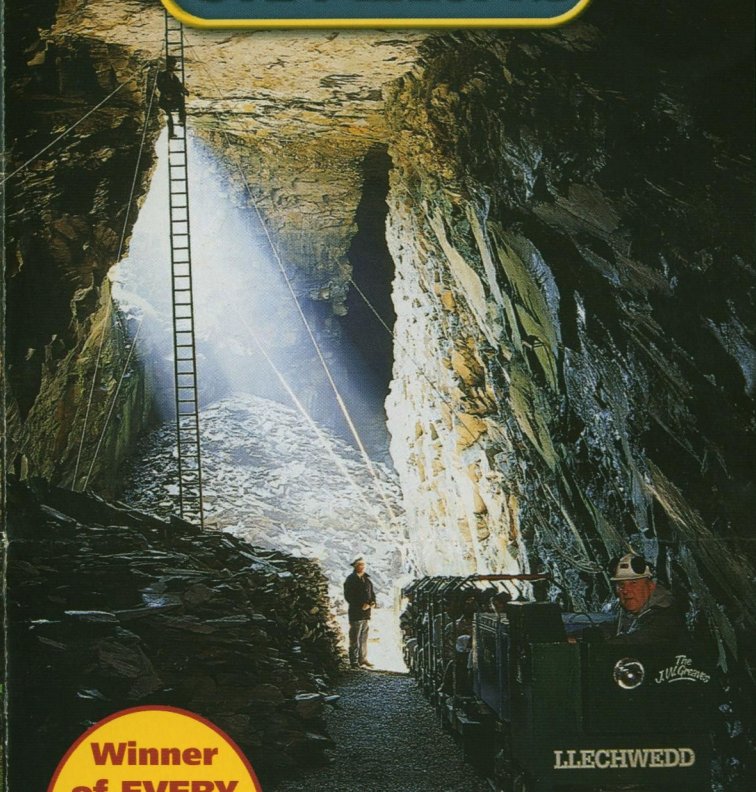


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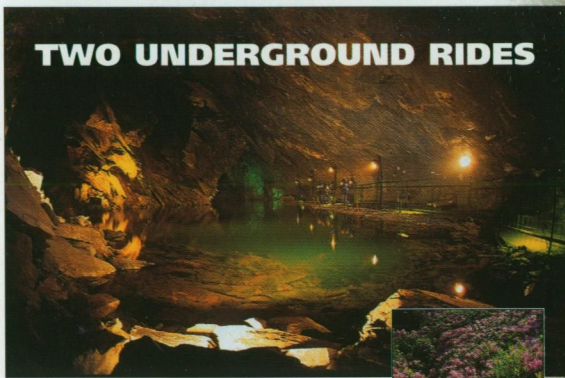
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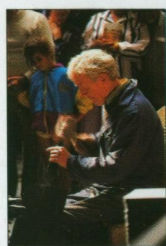
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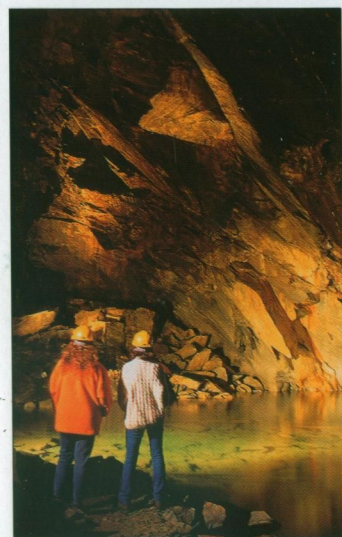
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Darganfyddwch drefnadaeth lechi Cymru, ym myd tanddaearol y cloddiwr llechi Fictorianaidd. Cerddwch i mewn i'w bentref, ac i mewn i gartref David Francis, Y Telynor Dall o Feirion. Mwynhewch bryd bychan yn nhafarn y pentref, sy'n defnyddio ceiniogau'r cyfnod, neu



luniaeth ysgafn yn y caffi newydd. Mae dwy reid ar gael. Mae Lein Fach y Cloddiwr yn daith gyda arweinydd trwy siambrau enfawr, gyda arddangosfeydd o'r hen ddoniau cloddio i'w gweld. Mae taith y Gloddfa Ddofn yn cychwyn ar y rheilffordd deithwyr fwyaf serth yn y wlad, a thaith gerdded 25-munud i weld dilyniant o ddarluniau byw o'r cyfnod.



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1" 116

SH 692 195

MAESTRYFAR MINE, Llanelltyd & Llanaber, Mer.

JRF-S(1977) 24 = (GT.) CAMBRIAN, = CAMBRIAN

CONSOLS = NORTH WALES CONSOLS.

Reopened 1852 w. other mines, for Cu, Pb,
later for Au.

EW quartz veins with calcite in places,
& pockets of baryte. Pyrite, chalcopyrite,
galena, sphalerite. Auriferous.

1" 116

SH 634 176

LLWYNON M., Llanaber, Mer.

JRFS (1977) 26.

Worked for Cu, Pb, Au,
on series of veins, NE & ENE, of.
quartz.

1" 127

SH 647 987

LLYN-BARFOG, Towyn, Mer.

JRFS (1977) 29. Small Pb mine on NS
Vein, prob. ~ mid 19th Cent.

1" 116

SH 65

34

LLYN DU BACH MINE,

Mer.

Near Moel Ysgy Farnogod, Harlech Dome.

R. Tayler spec → RSWB 14-12 (11/14). Pink
band sonolite + tephroite + rhodochrosite
in Mn ore.

R. Tayler → RSWB (2014) 14-2

Franklinphillite with caryophilite.

1" 116

SH 645 340
Mer

LLYN EIDDEW-MAWR

OS 1" 116 (1947) shows "Manganese mine"
at 645 340 on NW bank of Llyn
Eiddew-Mawr stream.

LLYN STWLAN, Ffestiniog, Mer.

See AFON STWLAN SM 67 44

1" 116

SH 645 383

LLYN TECWYN, Llandecwyn, Mer.

JRF-S(1977)12 Trial ^{level} 1 to E in Cambrian,
prob. for Pb, Cu.

1" 117

~ SH 948 308

MAESAFALLEN, Llanfor.

See also ABER HIRNANT

JRF-S(1977)30-31. A report of 1851 reports
trials on a 3-4 ft vein of
quartz with galena, sphalerite
& chalcopyrite.

1" 116

SH 631 271

MAES-Y-GARNEDD, Llanbedr. Mer

OS 1" 116 (1947) shows "Old level (manganese)
at 631 271

1" 116

SH 710 193, ~~6127~~

MAES-Y-GARNEDD, Llanelltyd, Mer

Allen & Jackson (1985) At 7107 1937, in
road cutting, some 1 cm pyrite cubes.

~~as 1" 116 (1947) shows "Old level, manganese"~~

MANOD-BACH MINE, Ffestiniog, Mer.

SRMRGB XX (1925) 41 Levels nr. Caedyd, on lower slopes
of Mamod-bach. 3' lode, nearly vertical, traced up
its outcrop by qtz up the mtn. slope. Mixed
galena, blende, chalcoppyrite & pyrite, in quartz.
200 yd level exists.

AA Archer N-F (1959) 268. A lode has galena, blende,
chalcoppyrite & pyrite in quartz.

JR F-S (1977) 10. Small mine on EW vein in
Ordov feldspathic ashes. Pyrite, chalcoppyr.,
some galena, sphalerite, in quartz.
~~AA~~ A level E along vein ~ 600 ft.

1" 107, 116

SH 707 448

[ERHYOLITE]

MANOD 'GRANITE' QUARRY, Blaenau-Ffestiniog, Mer(I)

See also MANOD QUARRIES.

B. Cooper, Letter of 18/12/76. Rev. Hollier has a specimen of brookite from "Manod quarry, Blaenau, Festiniog."

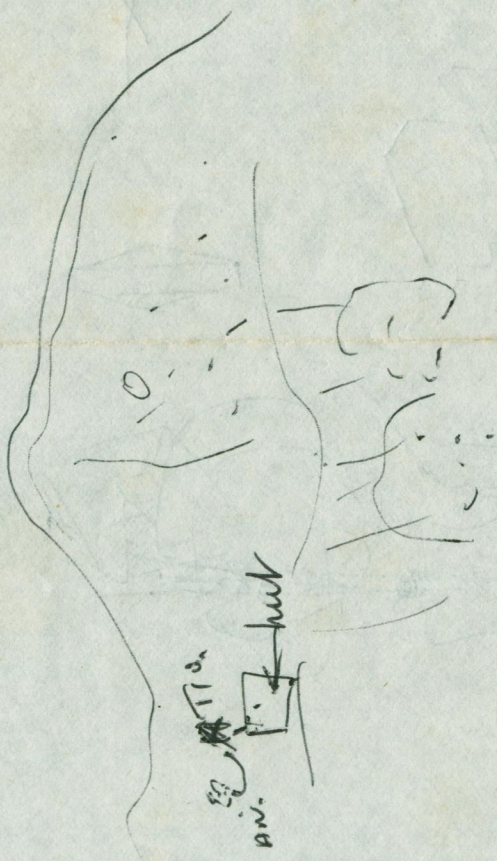
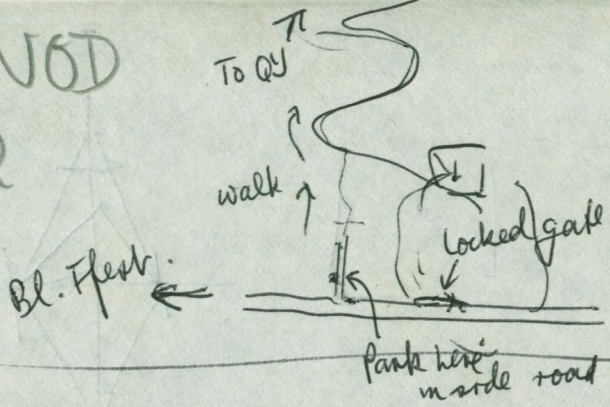
J. I. Wilson ~~11~~ 6/77, Spec's → RSWB for ident, (8/6/77).

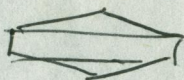
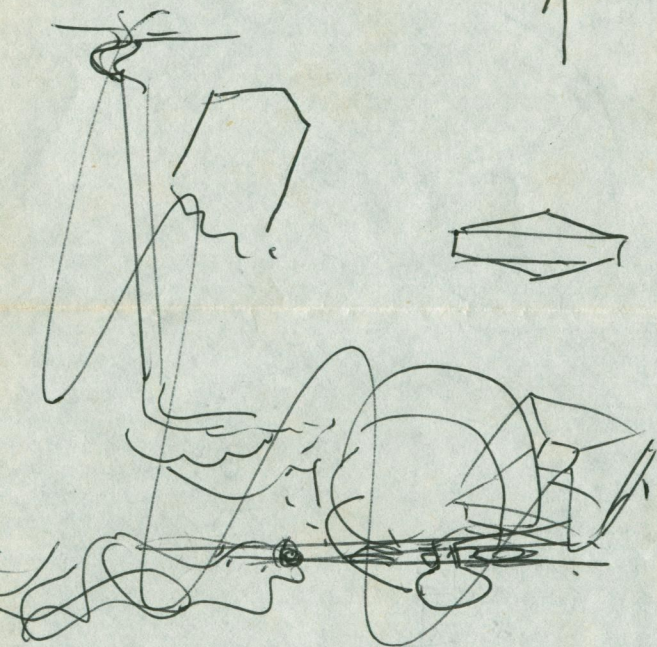
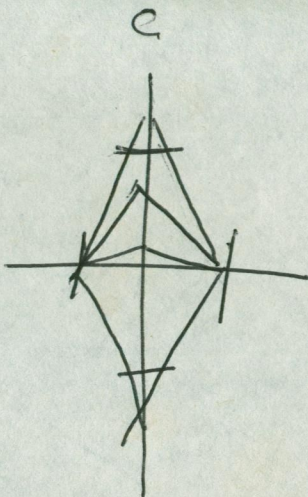
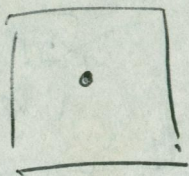
Abandoned crumbling quarry visited by Ike a few days previously. Ti minerals in quartz + calcite veins, some revealed by dissolution of calcite in HCl.

Dolomite with quartz veins with

later calcite, joint & vein surfaces have
small clear prismatic quartz crystals
small clear albite xls - v. like Prenteg
matrix. Patches of ^{green} chlorite - mostly
late but some as inclusions in water-
clear quartz crystals. Brookite → ~1cm
mostly shattered & etched-looking, assoc
with remarkable anatase xls and
a little rutile. The anatase varies
in colour & habit → Rarely brownish "normal"
acute bipyramidal 1-2mm. Commonly
steel blue to nearly colourless & pale
yellow, platy low bipyramidal as single

MANOD
Q

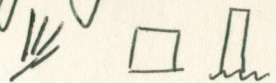




MANOD 'GRANITE' QUARRY, Blaenau Ffestiniog, Mer (II)

square plates usually with 001 but
~~sometimes~~ ^{often} not with 100 & 010, 110 sometimes
^{→ 1-2 mm} present. Δ Tends to twin  or in
parallel growth →  The colour
often patchy or zoned - blue outer
zones - colourless to yellow inner.

Another generation (?) forms remarkable
tiny square to rectangular ^{thin} simple tablets
with mirror smooth faces, perfectly
transparent, a pale straw yellow, mostly

simply $\{001\}$ $\{100\}$ $\{010\}$, occas. bevelled e/or
with $\{110\}$, tending to aggregate in
sheaves, not parallel. 

X's of intermediate types seen, so
probably still is anatase(?!).

GS 2 1/2" map. EW dolerite veins in rhyolite
where "Manod granite quarry" marked

D. Green (1997) BMS Newsl. 46 5. Sychysite-(Ce)

[Ce dominant, but variable - still under study], rosettes
of plates $\rightarrow \sim 1\text{mm}$ in Alp-type veins.

MANOD 'GRANITE' Q'y Blaen. Ffest. Mer
(III)

RSN (1992) 23

On the way home a few members called in at Manod Quarry in Blaenau Ffestiniog. many superb specimens of blue anatase crystals were collected, one brookite crystal and some excellent quartz crystals were also found.

RSN (1997) 30

Anatase; synchysite (Ce)

w. calcite, qtz. Albite;

brookite.

M Rothwell BMSW (1998)

50 2-5. Quartz,
albite, blue anatase,
brookite, rutile,
synchysite - (Ce).

1" 107, 116

(SLATE)

SH

732

455

~~MANOD GRANITE QUARRY~~

Mer.

MANOD QUARRIES, Blaenau-Ffestiniog,

MANOD GRANITE QUARRY

B. Cooper, Letter 18/12/76. Rev. Hollier has a spec.

of brookite from "Manod Q'y, Blaenau, Festiniog."
(probably from MANOD GRANITE Q'y, g.v.)
(1959)

1" 107 MANOD QUARRIES, SH 732 455 NOT on 1" 116 (1947)

[2½" GS. MANOD GRANITE QUARRY, SH 707 448]

According to locals, q'y at 732 455 is a
slate quarry (like Wilson 6/77).

RSN(1977) 30, 15 The "other" MANOD Q. [presum.

the 732 455] marked on map is also called

PTD

CWT-Y-BUGAIL SLATE Q. Working;
visited; not much found: qtz, chlorite,
pyrite, celbite

MARINA GOLD MINE, Llanfachreth, Mer.

See E. GWYNFYNYDD M.

MAWDDACH RIVER, Mer.

TA Readwin, Rep. Brit Assoc for (1870), p 85; also
Min Mag (1879) 3 122.

FJ North (1962). "Mining for metals in Wales"

Attempts in 1862 & 1870 to obtain gold
from the bed of the river, where it
occurred from Rhaeadr Mawddach 735 275
to Llanelltyd 71 19 and seems to have
been derived from the GWYNFYNYDD
lode [qv]

1" 127

Towyn ^{SN} 618 992 ^{PH}

MELIN-LLYN-PAIR MINE, Aberdovey, Mer.

See also ABERDOVEY; TOWYN

JR Foster-Smith in N-F (1959), p309 The old mine
near Aberdovey was known as the
"Melin-llyn-pair mine"

OS 1" 127 shows "Old Mine" at SN 617 993, ca
2ml N of Aberdovey.

WJL (1967) Map, p 237. Lead mine - "MELIN-LLYN-Y-PAIR"

JRFS(1977) 29 MELIN-LLYN-PAIR = ABERDOVEY

MINE = CAETHLE. SN 618 992.

3 main veins, NE, NW, EW, + strings & branches.

Quartz, with calcite; galena, sphalerite,
chalcopyrite. SH 618 992.

Had reached 180 ft by 1740; last worked
~1883.

An electricity generating station now
on site.

MELIN-Y-WIG, Llansantffraid Glyndyfrdwy, Merioneths

OS 6" map shows "GLAN CLWYD LEAD WORKS"
at SJ 051 497, with associated "Old Shafts,
(Lead)" just to the SW; also "Shaft (Lead)"
at SJ 038 482, near Brynmawndy.

GR 5-6/70 Glan Clwyd mine, SJ 052 496. Partly
grassed-over low dumps & low ruins.
Almost barren. A little vein-quartz &
calcite; massive galena in shale.
Signs of old workings back towards

The farm. Brynmawr dy shaft, SJ 038483,
not seen from road.

MERIONETH CONSOLS MINE,

- Mer.

JRF-S (1977) 35. Not located. "Near
Llanymawddwy" [1" 117 SH 90 19 but
parish extends E into 1" 116]

1" 116

SH 594 391

Penrhyndeudraeth

MINFFORDD QUARRY, Mer.

cf HENDRE HENYDD

Cardiff Mus: Albite, pink 1/4" xls with calcite & quartz. [v. infra]

OS 1" 116 shows "Minffordd" (village, stations) at
SH 600 385

GR 6/70 Large working quarry at 594 391
in "basalt", i.e. dolerite. Large calcite
veins, some asbestos-like stuff but
generally v. disappointing.

B. Cooper 10/76 → RSWB. Pink xls orthoclase (IR

= Biclaase, NOT albite) with quartz; plentiful
on bottom bench of big quarry.

MOEL ESBIE MINE, Llanelltyd, Mer.

See FOEL ISPRI M.

1" 117

ST 125 398

MOEL FERNA MINE, Corwen, Merioneths.

BMS Newsl (6/95) 41, 10. P. Hay found a minute
spray of gypsum at Moel Ferna mine

MOELFRE MINE, Llanenddwyn, Mer.

= HENDRE MINE

OS 1" (116) shows "Moelfre Mine (Mn)" at the above loc.
& another Mn mine at 628 254 on
NE slopes of Moelfre.

Cotterell et al (2010) J. Russ. Soc. 13, 47-52.

Hübnerite, dark brown blades to 12mm
in quartz-ankerite veins cutting pale
rhodochrosite-rich bedded Mn ore, at
Hendre mine at SH 6280 2550 on NE
slopes of Moelfre, Llanbedr.

1" 116

SH 61 32

MOEL GOEDOGMer.

DF Ball, MM (1969) 37 291-2 From small roadside quarry at SH 610 329, ironstained mudstone coated with clay minerals & dolomite, a single vesicle of white earthy basaluminite was found in 1964

MOEL HAFOD OWEN Rhobell Fawr, Merioneth.
See TURF COPPER WORKS.

The Copper Bog of Merioneth.

Davies, "A Treatise on Metallif Mins & Min'g" (1838). Ref to Ramsay,
"Geol of N. Wales". Near Moel Hafod Owen, W of Rhobell
Fawr (SH 77 25), nr. Dolgelley. Cu carbonates
in moss, Cu derived from chalcopysite in the
surrounding Up. Cambrian talcose schists,
felspathic rocks, & greenstones.

MOEL REIDE, Llanuwchllyn, Mer.

See FOEL RHUDD

1" 116

SM 642 386

MOEL TECWYN, Llandecwyn, Mer.

JRFS (1977) 11.

Level to S in Cambrian,
prob. trial for Cu or Pb ores

1" 116,107 SH 674 438
676 437 (Ffestiniog PH)
MOELWYN MINE, Blaenau-Ffestiniog, Mer.
~~See also NANT DDU~~ See also AFON STWLAN.

AA Archer N-F (1959) 268. Abandoned 1921. Several EW lodes.
Zinc ore in quartz-cemented breccia.

OS 2½" map shows "Moelwyn Bach" (Mt.) summit at 660 438
"Ceseilian Moelwyn" ridge at 667 446 - 675 450
In this area "Old Levels" are shown at
670 446, 663 439, and a group by
Nant Ddu [qv] around 673 437. On W side
of Moelwyn Bach, "Old Levels" at 654 437, a
group at 646 446 - 656 446. Also N of
Moelwyn Mawr, at 658 452.

OS 1" 116 (1947) shows "Zinc mine" by Nant ddu stream, near SH 674 438

H Dewey & B Smith SRMRGB "Pb/Zn" 23 (1922). In
Nant-ddu.

WJL (1967) Map, p 237 Lead mine

JR F-S (1977) 10. Plant in Nant-ddu at 676 437
On several EW veins in Ordov. slates & volcs.
Sphalerite, with a little galena &
chalcopryrite, in quartz Last
worked 1921; now isolated by CEGB's
pumped storage scheme.

1" 107, 116

~~MS~~ SH 662 439

MOELWYN BACH, Ffestiniog, Mer.

JRF-S(1977)9. Trials ^{levels} at a precipitous
& inaccessible site, prob. for Pb, Cu,
Zn, on veins in Ordov. rocks.

1" 116

SH

7

3

MOEL YSGYFARNOGOD,

Mer.

See also TRAWSFYNYDD.

UKJMM (2008), 29, 14. Brookite xls $\Rightarrow$ 3mm,
anatase, dark blue $\Rightarrow$ 1mm in alpine-type
quartz veins at MOEL YSGYFARNOGOD,
near Trawsfynydd, Gwynedd.

1" 116

SH

744 253

MYNYDD-BACH, Llanfachreth, Mer.

JRF-S(1977)18

NE veins tried, for Au?

1" 116

SH 736 258

MYNYDD CAE'N-Y-COED, Llanfachreth, Mer.
see also CEFN-DEUDWA

JRF-S (1977) 17-18 Trials for Au in
quartz veins. Unsucc.

Allen & Jackson (1985), 73. A partly-filled
trial level for Au? in a quartz-
pyrite vein at 737 260 is in the
pyrite zone of the CAPEL HERMON porphyry
copper deposit & has green & blue
stains on walls.

1" 116

SH 863 393

MYNYDD NODOL, Arenig, Merioneths,

SRMRGB " Mn" () p 54. 2ml E of Arenig Str. Ore
mostly psilomelane.

TBG 163. psilomelane, botryoidal, on rock.

FJN (1962) 100 Black Mn ore got in 2nd half of
19th cent. from shallow open cuts & levels
near Arenig, eg on W slopes of Mynydd
Nodol. The ore filled joints, irregular
fissures & small pockets.

BM(NH) Botry. psilomelane - "ARENIG"

E. Halse. Trans Fed Inst Mining Eng (1892) 3 940;
(1893) 4, 167. Trans N. Eng. Inst Min Mech Eng
(1893) 42 45. "Mn one occurrence near
the Arenigs.."

GR 6/70 No Mn workings seen on W side.

1" 127

SH 623 997

NANTCYNOG, Towyn, Mer.

JRFS (1977) 28. Trial level, prob.
for Pb ore, on NNW vein.

NANT-DDU MINE, Ffestiniog, Mer.

See MOELWYN MINE SH 67 43

1" 127

SH 683 045

NELLE GWYNNE, Llanfihangel-y-Pennant, Mer.

JRFS(1977) 28 Trials for Pb in 1853.

Several quartz veins exposed, main
one 3-6 ft wide, with galena.
Shaft to ~70 ft, where vein
split into stringers downwards.

1" 107, 116

SH 6 4

NEWBROUGH MINE, Blaenau Ffestiniog, Mer.

JRF-S (1977) 35 Not located. At Bl. Ffest.,
possibly in Newbrough Slate Quarry

NEW MORGAN MINE, Trawsfynydd, Mer.

See GWYNFYNYDD MINE SM 73 28

NORTH WALES CONSOLS, Llanelltyd & Llanaber,
Mer.

See MAESTRYFAR M.

1" 116, 107

SH 69 47

OAKLEY MINE, Blaenau Ffestiniog, Mer.

JRF-S(1977) 35. At Bl-Ffest., stated to be
at or near Oakley slate quarries [qv]
[Cent on 695 470].

1" 107, 116

Around SH 695 470

OAKLEY QUARRIES, Blaenau Ffestiniog, Merioneths.

See also LLECHWEDD QUARRIES.
OAKLEY MINE.

1" 116

SH 6

1

OWAIN GLYNDWR MINE,

Mer.

JRFS (1977) 35. NOT located. Said to
near Barmouth [SH 61 15.]

OS 1" 116 shows "GLAN-DWR" at SH 639 173

1" 116 SH 627165 628164 629169
Llanaber
PANORAMA MINE, Barmouth, Mer.

AA Archer N-F (1959) 266.

Lode at N 30° E gold mine.

Quartz, pyrite, pyrrhotite, chalcopyrite, gold,
galena, blende, (calcite), (arsenopyrite).

GRGS 25?/5/64. ? ~ 628164, just above road to Barmouth.
Not interesting. chalcopyrite etc (as next ref.).

HDewey & T Eastwood SRMRGB 30 (1925) "Cu". Several
Cu lodes, rich in pyrrhotite, worked by
levels. Quartz; chalcopyrite; galena;
sphalerite

JRF-S(1977) 27. Small mine on NE quartz
veins, with pyrite, chalcopyrite,
galena, sphalerite; ones to some
extent amiferous. Veins long &
persistent but not strongly mineralised
SH 629 169

Allene Jackson (1985) 55. Small collapsed trial at
6270 1649 is part of PANORAMA M. which has
6 quartz-chalcopy-galena-pyrite-pyrrhotite
veins. A trial pit on two quartz veins
with galena at 6260 1634

1" 107, 116

~SH 655 437,8

PANT-MAWR, Llanfrothen, Mer.

JRF-S (1977)9 Trials, prob. for PbeCu
near here, unsuccessful

1" 107, 116

1" 116, 107 SH 618 402

PANT-Y-WRÂCH MINE, Llanfrothen Mer.
+ Llandecwyn.

H Deroey & T. Eastwood

SRMRGB XXX (1925)

Nr. Ty-Mawr, ca. 1 mi. N of

Pentrhenddraet Church. Just inside Ordovician sediments.

Two lodes, E & SE, up to 4 ft. wide. Quartz
and calcite w. small stringers of chalcopryte.

Some galena.

45 yd. deep shaft, & two
levels, 300 yds & 500 yds long respectively.

AA Archer N-F (1959), 267.

Descr. by Fearnside & Davies

Q J G Soc. Lon. 99 247 (1943).

EW, & a NW-SE lode

of quartz & calcite, with chalcopryte.

Abandoned, 1916.

OS 2½" map shows "Ty-Mawr" at 614 402; "Pant-y-wrâch" at 617 404

Ike Wilson 2/77. Adit at 618 403. Galena

JR F-S (1977) 8, 9. 2 veins, EW & N-W in
Ordov. Mainly Cu, also Pb, Zn.
Levels into Cefn-Coch ridge from E
& from W. Worked 1827-1916, intermitt.
Chalcopyrite, galena, sphalerite,
in quartz, some calcite.

1" 117

SJ 110 423

PENARTH, Corwen, Merioneths

See also CORWEN

OS 1" map shows "Mine (disused)" of considerable
size at SJ 110 423

OS 6" map shows this as "Corwen Slate Mine"

1" 116

SH 719290

PENMAEN GOLD MINE, Trawsfynydd, Mer.

JRF-S (1977) 15

WOODLAND V. & FRANCIS V.

strike view of massive white quartz
& pyrite, minor other sulphides.
More or less auriferous. Unsucc.

1" 116

SH

855 204

PEN MAIN, Llanymawddwy, Mer.

JRF-S (1977) 35. Trials, prob. for Pb
in N contin. of Cowarch veins.
Inaccessible, on ridge ~ 2000 ft OD.
[Wrongly placed on map]

1"116

SH 807 157 (?)

PENNANT MINE, Mallwyd, Mer.
See also CRAIGWEN M., Mallwyd.

JRF-S (1977) 34-35. Trial, with
Craigwen M., for Ph ore. A level.
Active 1848-1850.

PEN-YR-ALLT

1" 116, 107 SH 632 410

PEN-Y-RALLT MINE ~~Plafrothen~~ Mer.

AF Hallimond MM 20 193 (1924) CAEFALI = CATHERINE & JANE CONSOLS
PENYRALLT Llangmawddwy. SH 868 184

Stilpnomelane at Pen-y-rallt
Iron Mine, $\frac{1}{2}$ ml E of Plafrothen Church, Mer;
brown, intensely pleochroic, a bit like biotite.

AF Hallimond MM 25 457, 461 Chlorite (chamosite) +
stilpnomelane with scattered grains of
magnetite

JR F-S (1977) 8. PENYRALLT = CAEFALI = CATH.

& JANE CONSOLS. On strong EW vein
& associates in Ordov. (W) & Cambrian (E)
Mainly Pb ore, much magnetite
said to occur. Galena, sphalerite

in quartz. Magnetite in branch veins.

Levels driven both N e S into
ridge with veins; also shafts.

1" 116

SH 868 184

PENYRALLT MINE, Llanymaeddwy, Mer.

cf PEN-Y-RALLT M., Ffestiniog & Llandecwyn, 632410

JR F-S (1977) 33. 3 ~ NNW Pb veins,
crossed by a slightly N of E vein
reported (unconfirmed) to carry
fluorite. Quartz, calcite, much
pyrite, galena, some sphalerite &
chalcopysite. Pockets of baryte.

Working before 1851. Closed 1863. Fairly
Extensive - levels; Bellway's engine shaft
reached 57 fms [30 below adit] in 1859.

1" 116

SH 730 276

PISTYLL-CAIN, Trawsfynydd, Mer.

Allen & Jackson (1985) At 730 276

Mn rocks well exposed immed. W of path.
Pale pinkish-yellow bands, nodules & lenses
to 1 cm thick with black weathered
surface of Mn oxides. Deposited as
rhodochrosite gel on sea floor &
metamorphosed to spessartine.

PRINCE EDWARD MINE Trawsfynydd, Mer.

cf "PRINCE OF WALES MINE" [?=]

AA Archer N-F (1959) 265. gold mine; has been open at
some time since 1913.

Quartz, pyrite, pyrrhotite, chalcopyrite, gold,
galena, blende, (calcite) (arsenopyrite)

2½ ml NE of Trawsfynydd Stn. One of
last gold mines in Britain - abandoned 1935.

Described: Thomas G.S.S.P. (1912) 65. Macdonald

Min World 129 Oct 5th (1935), 309. - detailed.

FJN (1962) 68: looses of quartz with sulphides @
junction Cambrian sediments/diabase sill. Gold.

mostly assoc closely with pyrite but some
visible. Near Trawsfynydd

Thomas, Summ. Progr. Geol Surv. (1912) 65.

JRFS (1977) 13 A late development. Vein in
Camb. shales, developed for gold but
galena, sphalerite & chalcopryrite
also occur, in quartz. Closed, 1935.

[=HAFOD-Y-MORFA M.]

PRINCE OF WALES MINE ^{1" 116 SM 7224} Mer. ⁷⁰¹¹⁹⁶

PRINCE EDWARD MINE [?=]

TMH (1868), 76. (Au) Blonde; galena; gold; chalcopryrite.

GeL (1858) Gold, chalcopryrite

R. Warner "Wales" (1799) 109. PRINCE OF WALES'S MTN.

on LHS of road (going N), nr. Dol-y-Myllyn

↑ cataract [=DOLYMELYN LLYN, SM 7224],

has veins formerly mined. We collected

lead & copper ores, spar, micaceous
stones, etc., and a curious species of
the toadstone - in vast masses at the bottom
of the mtn.

of BERTH-LLWYD &
of CEFN-COCH

JRF-S(1977)23 HAFOD-Y-MORFA = PR. OF WALES,

SH 701196. Main vein = ROMAN V, NNE, of
quartz w. pyrite, galena, sphalerite, some
chalcoppyrite. V. Old. Working for Pb.
early 19th Cent. Au disc. ~ 1850. Reopened
for short time in 1900.

Allen & Jackson (1985) Bricked-up level of
P. of W. Au mine at 7011 1954. Other
levels on hillside. EW quartz veins
with galena, pyrite, chalcoppyrite,
sphalerite, very little gold.

PRINCESS ALICE MINE, Hanfachsreth, Mer.

See BENG LOG SH-80 23

PRINCESS MARINA M. Llanfachreth, Mer.

See E. GWYNFYNYDD M. St 74 28

1" 116

SH

78

38

779

384

PRYSOR MINE, Trawsfynydd, Mer.

AA Archer NF (1959) 267. $4\frac{1}{2}$ ml ENE of Trawsfynydd.

Pyritic ore with 1-2% chalcopysite in a NW-SE lode. A parallel lode is reputed to have had native gold - 215 oz Au got from only 8 tons ore, in 1912 (presumably hand-picked).

H Dewey & T Eastwood, SRMRGB 30 "Cu" (1925): yielded pyrite with a little chalcopysite; one lode said to have carried native gold. Not much worked

JRFS(1977) 13 = BLAEN-Y-CWM. On strong

NW vein up to 36 ft wide in Cambrian
e associated veins rocks. Massive white quartz, with
much pyrite, pockets of chalcopyrite
w. some galena & sphalerite. Arsenopyrite,
gold (215 oz ex 8 tons ore, in 1912). Last
worked ~ 1920.

1" 117

SH 889 195

RED DRAGON MINE, Llanymawddwy, Mer.

JRF-S(1977) 32.5 ~EW veins in Afon

Pumryd tried for Pb ore, 1852-4

Quartz, some calcite. Much
pyrite, some galena. Gold said
to occur. Lead & copper ores.

Closed ~ 1854.

1" 116

SH 641 290

RHINOQ FAWR,

Mer.

OS 1" 116 (1947) shows "Manganese mine"
at SH 641 290, on W slope of
Rhinoq Fawr.

1" 107, 116.

SH

623 404

RHIW-GOCH, Llandecwyn, Mer.

JRF-S (1977), 9 Trials, prob. for Pb, Cu
on veins in Cambrian.

RHOBELL FAWR,

Mexico

See TURF COPPER WORKS

1" 116

SH 802 212

RHOS-LWYD, Brithdir & Islaw'r dref, Mer.

JRF-S (1977), 35.

Au? SH 802 212 (but put much
further S on map, in different
parish]

ST. DAVID'S {WORKS Llanaber PH
MINE, nr Bont-ddu, Mer.

See CLOGAU MINE also VIGRA M, GRAIGWEN M.

~~8421858, 2741~~ *Engthorn*

SOVEREIGN MINE, Llanelltyd, Mer.

JRF-S (1977) 24. Trials, prob. for gold,
at NE end of Roman vein of PRINCE
OF WALES MINE [q.v.] on quartz vein
with galena, sphalerite, much pyrite.
Reported to be auriferous.

1" 116

SH 625 358

TAL SARNAU (=TALSARORA) Talsarnau, Mer.

JRF-S(1977)12 Levels E from Afon Glyn
to veins assoc w. Glyn Fault, in
Cambrian rocks. 2 tons Cu ore
recorded in 1851 (Mining Journal)

TALSARORA, Talsarnau, Mer.

See TALSARNAU

1" 107, 116

SH 617 425

TAN-LAN, Llanfrothen, Mer.

JRF-S(1977)7 Trial, prob. for Pb, Cu,
in veins in Ordov. slates.

1" 107/116

SM 660 409 (?)

TAN-Y-BWLCH, "Ffestiniog," Mer.

TMH (1868), 76. Lr. Sel. Galena "Tan-y-bwlch, Ffestiniog"

A. Hutchinson & W. Campbell Smith, MM (1912) 16 264.
Sericite

R. Turner 6/80 Anatase found ~ 1975-1976
when digging foundations of Tan-y-
Bwlch Station, on the Ffestiniog
Railway
[cf Tan-y-grisiau]

1" 116, 107 SH 69 45

TAN-Y-GRISIAU, Ffestiniog, Mer. (I)
(Allanite)

Thomas, Nature 81, 487 (1909). Orthite. The loc. is NW
face of quarry at Cefn-bychan, Tan-y-grisiau,
Blaenau-ffestiniog.

WG Fearnside Proc Geol Assoc (1910) 21 368 "Excursion to N. Wales"
Allanite in veins & cavities in N. margin of
the Tan-y-grisiau microgranite

A Russell MM 23 xlv. Exhibit: Allanite

AV Bromley Am. Min (1964) 49 1747. Allanite is a
common access. min. in the T-y-G microgranite,

also forms prismatic or tabular xls up to 1 cm,
in veins (up to 1" across) & cavities (up to 1 1/2" across)
with quartz; chlorite; calcite; locally
epidote, haematite, galena, sphalerite.

P. Spriggs Riv. Comm (5/77). Roadside vein at
SH 692 442 has massive sphalerite
(~1" lenses) and chalcopyrite (~1/2" lenses)
with small pyrite cokes and massive
quartz in slate.
Immed. to N, a quartz vein had var.
citrine xls in a cavity.

TAN-Y-GRISIAU, Ffestiniog, Mer. (II)

J.I. Wilson, Priv. Comm 8/77, Spec's → RSWB.

(77-70, 71). From debris of recent tunnel excavations for re-routing the Blaenau Ffestiniog light railway around new reservoir just SW of Tan-y-grisiau, tunnel being near 67,440 : chlorite, small dark green xls aggregated together; pyrite, small sharp bright cubo-octahedra on quartz on joint surface; marcasite veins and small sharp bright crystals

and attractive cockscomb aggregates.
The locality must be close to
the microgranite margin.

D.R. Neal "Ti minerals. Blue sphene?". ~~7 years ago~~

Min. Realm (1983) 2 [5] 23-28. ~ 7 years ago

coll. anatase, brookite, rutile, quartz, chlorite,
albite from quartz outcrop nr. Tanygrisiau. Now
a station on new railway. Some blue "anatase"
crystals are shaped more like sphene ^{e.g.}

[cf TAN-Y-BWLCH]



TAN-Y-GRISIAU, Ffestiniog, Mer. (III).

D.I. Green & D. Middleton, UKJMM (1996) 16 30-33

"Alpine-type vein minerals from Tanygrisiau, Gwynedd"

Anastomosing quartz veins in Caradocian seds have albite, inky blue anatase, apatite, brookite, clinochlore, rutile, synchysite.

BMS Newsl (1997) 47 3. BMS coll. D. Green: rutilated qtz

TOWYN, Merioneths

See also ABERDOVEY; MELIN-LLYN-PAIR M.

WJL (1967) Map, p. 1237. Lead mine—"Towyn"

1" 107, 116

SH 622 430

TRAIAN, Lianfrothen, Mer.

JRF-S(1977)6.

Unsucc trial for Pb, Cu
in Ordov.

TRAWSFYNYDD, Mer.

See also MOEL YSGYFARNOGOD

GR, GS, RNP, 6/65: Quarry at SH 713362,
just above the disused railway station.
Dolerite intrusion in slates. Quartz
veins; pyrite; traces chalcopyrite with
chrysocolla.

1" 116 SH 740 256

TURF COPPER WORKS, Rhobell Fawr. Mer.

= "Copper bog of Merioneth"

See also DOLFRWYNOG M,
CAPEL HERMON,
COED-Y-BRENIN

AA Archer, N-F (1959), 267.

Peat bog, "impreg with native copper and copper salts" work at Turf Copper Works. Described by Ramsay, Mem. G. Surv. UK (1881), 65. Acc'g to Dewey & Eastwood (1925, p. 44). Turf yielding $< 2\frac{1}{2}$ of Cu from ashes left untouched!

Davies "A Treatise on ~~Metallurgy~~ Metallif. Min's & Min'g" (1888) [6R copy]
Ref to Ramsay (1881). Near Moel Hafod Owen, W of Rhobell Fawr (SH 77 25) nr. Dolgelley.

Copper carbonates in moss, Cu derived from chalcopysite in the surrounding Up. Cambrian talcose schists, felspathic rocks, & greenstones.

FJN (1962) 59
history

Near Dol Ffrwynog M. (qv). Details,

? occasional thin films metallic copper

Allene Jackson (1985) See Hall (1975). Peat impreg w. Cu minerals from Cu-rich waters draining the CAPEL HERMON porphyry copper deposit. ~ 70 acres.
near 740 256

1" 116

SH 78-79

30

TWR-Y-MAEN, Trawsfynydd, Mer.

Allen & Jackson (1985). At 7890 3050,
quarry has scattered phosphatic
nodules.

At 7903 3066, thin pyrite veins.

At 7916 3081, scattered black 1cm
phosphatic nodules. Sandy banks
are of recrystallised chlorite pellets.

1" 116

SH 735 266

TYDDYN GWLADYS MINE, ^{Trawsfynydd}~~Llanfachreth~~, Mer. (I)

D.E. Bick in N-F(1959), 308.
mine.

Tyddyn Gwladys Pb, Ag

DC Davies (1888) Gold mine.

H Dewey & B Smith SRMRGB 23 "Pb/Zn" (1922)

In Llanfachreth parish [ie on E side of
Afon Mawddach. "Tyddyn ~~gwladys~~ gwladys" is
at 732274 - 2½" OS map].

D. Forbes, Phil Mag (1868), 35, 171. "Polytelite"

[Either Polytelite of Kobell = "freibergite" =
argentiferous tetrahedrite, or polytelite
of Glocker (1847) a sulphantimonite of
Pb, Zn, Ag & Fe "never adequately examined"
- Hey.]

WJL (1967) Map, p 237: Lead mine - TYDDYNGWLADUS.

JRFS (1977) 16-17. Quartz veins, v NE, w. some
calcite. Much pyrite; galena, sphalerite
gold. Not v. success.

GWHall (1975)

TA Morrison (1975)

~~WJL (1967)~~

TYDDYN GWLADYS M., Trawsfynydd, Mer. (II)

Allen & Jackson (1985) 73-75. Gold mine.

At 736 267 E of mine, pyrite disseminates
veinlets with chalcopyrite.

At 728 266 Pyrite locally abundant (^{W of} mine)

At 730 266 Sandstone has grains of
blue quartz, common in sandstones of
Harlech Grits Group.

At 729 265 Tips of Au trail have quartz,
calcite, pyrite, chalcopyrite rare, galena,
sphalerite. Pyrite + pyrrhotite bands
in cutting above the level. At
the crossroads [?] a large block of
quartz has stringers typical of gold

veins, with pyrite, sphalerite, chalcopy.
and bornite.

At 731 266, pyrite.

At 734 267 Tips by upper levels

See GWHall (1975) & T.A. Morrison (1975).

In pyrite halo of CAPEL HERMON
porphyry-Cu deposit.

1" 127

SH 643 983

TYDDYN-Y-BRIDDELL, Towyn, Mer.

JRF-S(1977), 29. Mine for Pb & prob. Cu on
a NNW vein. A report speaks of
5 Pb veins. Last worked mid 19th Cent

1" 116 SH 844 205
TYLLAU MWN MINE, Islaw'r dref Brithdir and Mer.

DW Matthews & JH Scoon
MM (1964) 33 - 1032.

On orig. 6" OS 74 SW. Large plates of

Stilpnomelane in calcite veins, in iron ore.

2ml "SW" [ESE] of Drws-y-Nant station
[818230], at 1950 'OD ^(closed in 1930's) _(Now flooded) Also magnetite,
quartz, ilmenite, pyrrhotite, small flat xls
fluorapatite (anal). ilmenite - one spec. with 1/2 inch rhombs.
chamosite

FJN (1962), 87. Near Drws-y-Nant; worked as
a deep open trench at least as early
as 1838. Name "Tyllau Mwn" means "mine shafts".
Worked again ca 1880. Closed before 1925.

JRFS(1977) 31:2. SH 844 205 Trials at

> 1900' OD for lead & copper ones
~ 1851. At least 2 veins - several
levels & a shaft. Veins ~ NW. Remote

1" 116

SH 735 226

TY'N-Y-BENRHOS, Llanfachreth, Mer.

JRF-S(1977) 20 Trial on quartz veins,
prob. for gold & copper ore.

1" 107, 116

SH 637 426

TY'N-Y-DDOL, Llanfrothen, Mer.

JRF-S (1977)7 Trial level for Pb, Cu
in Ordov. slate

UNION MINE, Llanelltyd, Mer.

See WNION M.

Bont-ddu "116 SM 663 192
Llanaber
VIGRA MINE / Dolgelly, Mer. (I) 6519

See also CLOGAU MINE; BONTDDU.

"Vigra" = W of the NS stream [= FIGRE M.]

TMH (1868), 76 "Vigra & Clogau Mine". Lr. Sil. (Cu, Au).

Blende; azurite; gold; pyrrhotite;
chalcopryite

BM 1922, 65 Erythrite, thin pink coating on quartz
Vigra Mine, Bont-ddu (A.R.).

AA Archer, N-F (1959) 265 ff. A major gold producer. Cobalt,
nickel, & bismuth minerals present [Dewey &
Eastwood (1925) 46]. Extensive list of mins. quoted by
Andrew (geol Mag. Decade V, vol VII no. 550, April, 1910)

Quartz, pyrite, pyrrhotite, gold, galena,
blende, (calcite), (arsenopyrite)

RSWB, TBB, JRK, 11/4/64; GR, GS23?/5/64; Vol IV p 97-99. See Clogau Mine.

Erythrite, pyrite, chalcopryite, arsenopyrite, pyrrhotite,
quartz matrix.

Home Office Abandoned Mines Plan R.50 "BONTDDU
and VIGRA MINE"

HDewey & T Eastwood SRMRGB "Cu" 30 (1925) [see also CLOGAU]
Working in 1919. White quartz & calcite,
sometimes intergrown, traversed by irreg. veinlets
of chalcopryite; also pyrite; pyrrhotite;
erythrite, native gold [visible - DC Davies (1888)];
sporadic xls galena, sphalerite; langite; "bismuth
telluride" [i.e. tellur bismuth] & "possibly some nickel
ore" occur rarely.

VIGRA MINE, Bontdu, Mer. (II)

WJL (1967) Map, p. 237. Lead mine

JRF-S (1977) 25 = ST. DAVID'S M. Group of
NNE veins. Main = St. David's Vein.

Quartz, calcite, pyrite, chalcopyrite,
galena, sphalerite. Sec'y mins
in shallower parts e.g. erythrite
is common; Ni & Bi minerals also
recorded. Worked with other mines
as ST. DAVID'S M. Worked intermitt.
~ 1852 → present day.

Allen & Jackson (1985) 68. Cu mine on hillside
above mill ~ 400 m W of Vigra Bridge.
Mill used also by CLOGAU M.

Gilkey (1968) [See CLOGAU card] Tellurobismuthide,
tetradymite, gold, quartz, calcite, POSS.
nagyagite (?)

DA Saich & S.A. Rust (1987) UK JMM in ("Rock Bottom") 3
3-4 "Micro minerals from a trial level in Wales".

Level at SH 657 194, ~ 300 m long on NE side
of hill 1.5 km NW of Bontddu [nr Vigra mine]
On dumps & adit wall, pink & green stains →

VIGRA MINE, Bontdu, Mer. (III)

containing aragonite, rare botry → needles;
brochantite, chalcocalumite*, chalcophyllite*
chrysocolla, devilline*, cuprite, erythrite,
gypsum, langite, malachite, nat. copper
(rare dendritic); monohydrocalcite* (one
spec. - minute clear pyramidal Δ section w
arag & corroded calcite); tyrolite-like
mineral*; pyrrhotite, pyrite,
cobaltite(?); chalcocite; covellite?

* Ident BM(NH).

VOEL MINE, Llanelltyd, Mer.

See FOEL ISPRI M. SH 70 20

V R O N G O C H , B a l a , M e r .

See F R O N G O C H

WELLINGTON MINE, Llanaber, Mer.

See HENDREFORION M. SH 67 20

WNION MINE Llanelltyd
~~on Ddgeton~~ Mer.

1" 116 SH 713 218
SH 709 215

See also CAEGWERNOG MINE (?=)

OS 1" 116 shows "Wnion Gold Mine" at the above loc, near
Cae-gwernog.

GR, GS, RNP, 6/65 Dumps scattered over hillsides
of cwm yr Wnion; those at SH 714 223, at the
head of the cwm, have quartz, sphalerite,
pyrite, galena; some calcite; traces of
chalcopysite & fibrous malachite.

JRF-S (1977) 21 WNION = UNION M. SH 709 215
Mine on NE quartz vein w. galena,
sphalerite, chalcopysite. Auriferous in places.

1" 116

SH 872 171

Y-CEUNANT, Llanymawddwy, Mer.

JRF-S (1977), 33. Trial levels, for Pb?
on ~~steep~~ steep sides of Y-Ceunant.

1" 127

SH 600 962

YR-HORON, Towyn, Mer.

JRF-S(1977), 29.

Trial shaft, for

Ph?