

GLAMORGANS.

OS 1" 152, 153, 154.

BM: Barytocalcite xls. [cf Llantrisant]

Hall & Kennedy, Proc Roy Soc (1967) B 168 377 Calcite
& ankerite in fossils (localities given).

Butler, MM (1911) 16 63 Formation of Kaolinite

Howard Trans Cardiff Nat. Soc. (1897-8) 30 46 Lead deposits

North, Ibid (1917) 49 16, record 31 species, including
barytocalcite, barytocelestite, glauconite, goethite,
gold, hatchettine, kaolinite, "linnaeite", millerite,
minium, psilomelane, pyrolusite, wavellite.

[Bevins et al (1985) the "linnaeites" = siegenerite]

S. Vivian (1887) Trans Cardiff Nat. Soc. 19 48-53. Palygorskite
in Fe mines

JRF-S (1981) J. R. Foster-Smith "The non-ferrous
mines of the S. Wales area" Brit. Mining 18
Northern Mine Res. Soc.

Alstonite

glam

Llanthysant
Cefn Parc M

ANGLESITE

GLAM

Treharris(?)

Hendy Q(?)

Creigiau Q(?)

ANKERITE

GLAM

Cymmer, Porth

Ogmore Vale

Glam.

Wattstown Pit

Treharris

Rhondda

Tirydail

Nant Helen

9/10/11

Apatites

See also carbonate fluorapatite

Parc Slip (fluor-)

ARAGONITE

GLAM

Barry Island

Cefn-y-Pare (?)

Cord Ely (?)

Aberavon (slag)

Atacamite

glam

Aberavon (slag)

Aurichalcite

g/am

Bute Q.

Porthcawl

Hendy Q

Azurite

glam

Hendy Q

Aberdaron (slag)

BARYTE

Treharris
Llantrisant
Seven Sisters Cliff, Penarth
Barry Island
Llangan
Cymmer
Rudry
Draethen
Penarth
Groes-Faen
Castell Coch
Rhiwbina
Southern-down

GLAM

Mwyndy mine
Capel
Tŷ Coch
Cefn-y-Parc M
Taffs Well
Blaengwynlais Q
Ogmore-by-Sea
Cilfynydd
Ton Mawr Q
Creigiau Q

Ba

Cwmleyston Q
Coed Ely
Barry

BARYTOCALCITE

GLAM

Llantrisant

glamorganshire

Mwyndy mine(?)

Barytocelestine

glam

glam

Barry Is.

Bituminous minerals, ^{apart} from coals Glam
(See also Hatchettine)

^{Lower}
Penarth (Jet)

Cambrian coll'y ("hydrocarbons")

Bindhermite

glam

Barry Is. (?)

Braunite

glam

Ty Coch

Brochantite

glam

Aberavon (slag)

Cacoxenite

glam

Pull-du

CALCITE

Cymmer, Porth
Castell Coch
Llanharry
Standard Colliery, Ynishir
Taffs Well
Barry Island

Glam.

Llangan
Mwyndy M (?)
St. Hilary
Swansea
Porthcawl
Rudry
Llantrithyd

GLAM

Garth Wood M
Mwyndy mine
Barry
Lavernock
Merthyr Tydul
Tŷ Coch (incl. Ferroam)
~~Priest Town~~ Ogmore Vale
Llantrisant
Cardiff
Bute
Afn-y-Pare M

Ca

Blaengwynlais Q

Cornelly Q

Hendy Q

Creigiau Q

Bishopston M/s.

The Mumbles

Ton Manor Q

Aberavon (slag)

Nant Helen

QATJVE

Carbonate-fluorapatite
See also apatites

Glam.

Aberpergwm Coll

Cambrian Coll.

Cilfynydd (?)

Gelli Coll

Parc Coll (?)

Park Slip W. Open cast

CELESTINE

GLAM

Barry Island

Llantrisant (?)

Croghan Q

Penarth

Barry

Cerussite

Glam

Rudry
Creigiau Q
Owmlayshon Q
Barry Ts.

Chalcedonic silica

Glam

Kenfig Point

Llantrisant (agate)

Tongwynlais

Cardiff (Beekite)

Aberthaw

Dunraven

Pentrebanau (Beekite)

Barry (Beekite)

Southern-down (Beekite)

Porthcawl (Agate geodes)

Chalcophyllite

Glaw

Aberavon (slag)

CHALCOPYRITE

Cymmer, Porth
Ferndale No.1 Pit
Ogmore Vale
Powell Dyffryn Pit, Bargoed
Treharris
Barry Island
Wattstown Pit

Mwyndy mine

Rhondola

Llantrisant

Bute Q

Cefn y Parc

Internak. Coll'y, Blaengarw

GLAM

Park Step West open cast
Taffs Well Q (spots)

Wed Ely

Cilfynydd

Nant Helen

Connellite

Glam

Aberavon (slag)

Copper

Glam

Aberavon (slag)

Crandallite

Glam

Pwell-Du

Cuprite

glam

Aberavon (slag)

Devilline

glam

Aberavon (slag)

Dickite

glam

Coed Ely Coll (IR)

DOLOMITE

Cymmer, Porth
Ferndale Nol Pit
Powell Dyffryn Pit, Bargoed
Treharris
Aberdare
Wattstown Pit

Senghennydd Pit
Garth wood M

Barry

Thornhill

Taff's Well

Tg Coch

Llantrisant

GLAM

Cefn-y-Parc

The Mumbles

Cwmleyshon Q.

EPSOMITE

GLAM.

Treharris

Fluorapatite
See apatites

glam

Fluorite

Glam.

Cardiff

The Munbles

Sully Island

GALENA

"lead ore"

Gower Peninsula

Powell Dyffryn Pit, Bargoed

Barry Island

Cymmer

Treharris

Wattstown Pit

Llangan

Glam.

St. Hilary

Llantrithyd (Ag)

Groesfaen

Gwern Efa

Eved Ely

Draethen

Rudry

GLAM

Bishopston Mls.

Cefn y Parc

Barry (e Island)

Caerphilly

Kenfig Point

Cowbridge

Candleston

Dunraven

Llantysilio

Southern-down

All-Stade M

Creigiau Q

Wenvoe
 Senghennydd
 Tumble-down Hill
 Bute Q.
 Celfynydd
 Hendy Q (Pb)
 Aymore-by-Sea
 Internat. Coll'y, Blaengrow
 Park Slip West Opencast
 Long Ash M.
 The Mumbles

Ram Grove
 Sully Is.
 Cwmloyshon Q
 Park Slip Opencast
 Parc

Glaucouite

glam

glam
bridgend

GOETHITE, LIMONITE, OCHRES

GLAM

Llanharry

glam.

Trecastle mine

Mwyndy M.

Garth Wood M.

Taffs Well

Llantrisant

Fforest Fawr (?)

Rudry (?)

Pen-y-lan

Ty Coch

Blaengwynlais ①

Hendy Q (ψ after chalcopy)

Creigiau Q

Ton Mawr Q

Barry Is.

Greenockide

Glam.

Hendy & (?)

GYPSUM

G LAM

Cardiff

Lavernock

Penarth

B Barry

Aberavon (slag)

" ALABASTER " = gypsum

GLAM

Cardiff
Lavernock
Leckwith
Penarth

HAEMATITE

Aberdare
Gower Peninsula
Llanharby
Llantrissant
Merthyr Tydvil
Newton Nottage
Castell Coch
Taff's Well
Ty-Isaf
Bolston Gaer
Cowbridge
Trecastle mine
Bute m.
Wenvoe
Garth Wood M
Rudry

GLAM

Mwyndy mine
Rhiwbina
Hendy M
Forest Fawr
Swansea
Sully Is.
Cwrt-yr-ala
Porthcawl
Tŷ Coch
Creigiau ⓪
Bishopston Mls (Brandy Cove)
The Mumbles

Haem

Ton Mawr Q

HATTCHETTINE

GLAM

Cymmer, Porth

Ogmore Vale

Wattstown Pit

glam.

Merthyr Tydvil

Coed Ely

Cilfynydd(?) ("waxes")

Parc Slip opencast

Hausmannite

Glam

Tg Coch

Hemimorphite

Glam

Cwmleyshon Q
Hendy Q (Berins)

Hydrozincite

glam

Barry Is. (probable)

"IRON ORE"

GLAM

Rhiwbina

Wenvoe

Pentyrch

Tongwynlais

Rhondda

(Coalfield)

Margam opencast

JAROSITE

GLAM

Treharris(?)

[Some may = DICKIE, see Coed Ely]

KAOLINITE

GLAM

Cymmer, Porth

Ferndale No.1 Pit

Powell Dyffryn Pit, Bargoed

Treharris

Aberdare

Glam.

Cwm Fforch-wen.

Langite

glam

Aberavon (slag)

Lavendulan

glam

Aberavon (slang)

Lindackerite

Glam

Aberavon (slag)

"Limonite"

g/am

See Goethite

LINNAEITE

GLAM

(Error for ~~SIEGENITE~~ (qv). RE Bevin's List 1986)
+ Bevin's et al (1985)

Cymmer, Porth

Ferndale No.1 Pit

Powell Dyffryn Pit, Bargoed

Treharris

Rhondda

Wattstown Pit(?)

Glam

Malachite

Glam

Penarth

Porthcawl (Zn-am)

Bute Q (Zn-am)

Mwynny mine

Hendy Q

Creigiau Q

Taffs Well Q ("spots")

Coed Ely

Aberavon (slag)

Gilfynydd

Manganese oxides (unspecified)

glam.

Trecastle M.

Ty Coch

MANGANITE

GLAM

Gower Peninsula

"Manganocalcite" "

Glam

Tⁿ Coch

Marcasite

Glam. ~~197~~

Park Slip W. Opencast (?)

Blaengwynlais Q.

Coed Ely

Park Slip

MILLERITE

Brynna Pits
Coed Ely Colliery
Cymmer, Porth
Dowlais
Ferndale No.1 Pit
Hopkinstown
Llanbradach
Ogmore Vale
Powell Dyffryn Pit, Bargoed
Treharris
Aberdare
Senghennydd Pit
Glam.
Merthyr Tydvil
Rhondla
Cambrian Coll'y

GLAM

? Abertridwr Coll'y.
Tylorstown
Price Town (Ogmore Vale)
Cilfynydd
Gilfach Goch (?)
Internat. Coll'y, Blaengarw
Park Slip West Opencast
Clyne Wood Coll'y
Park Slip Opencast
Nant Helen Opencast

Miller.

Park Slip W, Open cast

Minimum

Glam

Glam

Rudny

Morenosite,

Glam

See "Nickel sulphates"

"NICKEL SULPHATES"

See also retgersite, morenosite

Cymmer

Treharris

GLAM

Ni 50 4s (?)

GLDM

Cymmer
the harris

Polygonoskete

Glam

Glamorganshire

Mwyndy M.

Tŷ Coch (ortho-)

Phosgenite

Glam.

Aberavon (slag)

u¹¹ psilomelane see Romanachup Glam.

psilomelane

glam

ty Coch

PYRITE

Ferndale No.1 Pit
Barry Island

Llanharry
Treharris

Wattstown

Llanbradach

Aberpergwm

Onllwyn

Inyscedwyn

Tenby

Taffs Well

Llanfisant

Lavernock

Penarth

GLAM

Cefn-y-Parc
Coed Ely

Pyrobelonite

Glam

Ty Coch

PYROLUSITE

Wad (W)

GLAM

Newton Nottage

Porthcawl

Glam

Penarth

Barry

Caerphilly

Tŷ Coch (P, W)

PYROMORPHITE

GLAM

Rhiwsaeson

QUARTZ

Ogmore Vale

Mwyndy mine (incl "amethyst")

Standard Colliery, Ynishir

Treharris

Wattstown Pit

Cymmer

Llanharry

Taff's Well

Merthyr Tydvil

Kenfig Point

Llantrisant

Garth Wood M. (Silica)

Tŷ Coch

Senghennydd

GLAM

Price Town (Ogmore Vale)

Cilfynydd

Cefn-y-Parc

Internat. Coll'y, Blaengarw

Creigiau Q

Ton Mawr Q

Coed Ely

Aberpergwm

Cambrian Coll.

Barry Is.

Retgersite
(See also "Nickel Sulphates")
Lambouite

Glam

Treharris ?

Cymmer ?

Romancheite

Glam.

Ty Coch

Porthcawl ("psilomelane")

Glam ("psilomelane")

Rosasite

Glam.

Bute Q.

Porthcawl

Hendy Q. (?)

RUTILE

GLAM

Aberdare [Probably = millerite]

Merthyr Tydvil [— " —]

SIDERITE

NB Most "clay ironstone" is largely siderite. - coal seams

Merthyr Tydvil

Llantrisant

Maesteg

Cwmavon

Mwyndy Mine

Ogmore Vale (incl. stellate)

Cilfynydd

Parc Slip opencast

Coed Ely

Nant Helen

Park Slip W opencast

GLAM

atgoe with

Cambrian Coll

Aberpergwm

Siegonite

Glam

(Previously thought to be LINNAEITE (qv)) (Bevins et al, 1985)

Ogmore Vale

Internat. Coll'y, Blaengarw

Cymmer, Porth

Ferndale No. 1. Pit

Powell Dyffryn pit, Bargoed

Treharris

Rhondda

Wattstown pit (?)

Glam.

Coed Ely Coll'y

Nant Helen opencast

Cilfynydd

Smithsonite

Glam

Carleton (stellate)
Cwmleyshome Q
Barry Is.

SPHALERITE

Cymmer, Porth
Ferndale No.1 Pit
Standard Colliery, Ynishir
Treharris
Wattstown Pit

Price Town
Llantrisant
Bute Q
Cefn-y-Parc
Cilfynydd
Carnetown

GLAM

Ogmore-by-sea
Cwmleishon Q
Parc Ship opencast
Coed Ely (incl. "ruby")
Barry Is.

Strengite

Glam

Pull-Du Head

Strontianite

glam

Penarth
Barry Is.

Sulphur, native

glam.

Ogmore-by-Sea.

Thaumasite

Glam

Menthor Tydvil

Dowlais

Vanadinite

Glam

Ty Coch

Vartsite

glam

Pull-the Head

Wavellite

Glam

Glam

Cil Ifor Hill

Pwll-plu Head

Cal-Morgan

Barland Common, Brslopston.

Wit herute

glam.

Llantrisant
Cefn-y-Parc M

Wulfenite

Ty coch

glam

1" 153

SS 7291- 7488

ABERAVON SANDS Port Talbot, Glam
See also CWMAYON.

S. Plant (2003) J. Russ. Soc. 8, 9-15 "2½ min's from
the Cwmavon Valley Cu smelting slags, Glam,
S. Wales"

Little remains of the Cwmavon (SS 7892) Cu
smelter, but slags on Aberavon Sands,
esp. at SS 750888. In cavities,
azurite, atacamite (common), azurite (rarely),
brochantite, calcite, chalcophyllite, connellite,
copper, cuprite, devilline, gypsum, langite,
lavendulan (rare), lindackerite, malachite,
phosgenite (rare) + several unident. phases
eg "un 1" deep blue rect. plates, "un 2" sky-blue

needles, langite grp; "UN3" yellow spherules;
"UN4" brown hex rosettes, prob ferrhydrite
or akaganeite.
good SEM pictures.

ABERCYNON Colly, Glam

See CILFYN YDD.

ABERDARE, Glam.

TMH(1868) 75. Coal-m's. Haematite; "rutile" [?=millerite]
in cavities in clay ironstone, occasionally, near Aberdare.
Cardiff Mus: Kaolin, with dolomite & Millerite,
very tiny needles.

1" 153

11

SN 862 063

ABERPERGWYM, Blaengwraek, Glam

FJN(1917) Pyrite, as a hard black granular rock in the Nine-foot Vein, used locally for building (Merthyr Memoir GS (1904) p 75)

S Plant, D. Evans J Russ Soc 8 [2] 98-101 (2005)

Carb'ite-fluorapat xls to 1mm w siderite & quartz. The CFA is hex plates of low pyram.

1" 154

ST 03 66

ABERTHAW

Glam

FJN (1917) Gryphoea coated with chalcedony

(WD Conybeare (1822) & W Phillips "Outlines of the Geol.
of Eng & Wales, Pt. I" p 265)

OS 1" map has "E. Abertthaw" at ST 0366 & "W. Abertthaw"
at ST 0266.

1" 154

Colly. ST 118 896
~~Diamond~~ ST

ABERTRIDWR COLLIERY, Eglwysilan, Glamorgans

See also SENGHENYDD COLL.

Allan Dean (Cardiff). Letter in Gems 1973, 5, [2], 53.

The tip above Abertridnor Colliery, NW
Caerphilly, is a good locality for the
ironstone nodule minerals. [The usual
minerals mentioned but not specific
re locality]

ALL-SLADE MINE, Gower, Glam.
SEE BISHOPTON MINE, SS 58 87; LONG ASHM.

WJL (1967) Map, p 237: Lead mine
S. Plant (1998) RSN 32 21-3. Part of BISHOPTON
MINES, silver-lead, on NW vein.
Tucker & Tucker (1975) Bull PDMHG 6 [1], 15-27
"The lead mines of SE Wales"

1" 154

ST

1599

BARGOED, glam.

See POWELL DYFFRYN PIT

1"153

SS 58 89

BARLAND COMMON, Bishopston, Gower, Glam

see also BISHOPSTON M's etc.; CILIFOR HILL etc.

3. Plant (1998) RSN 3221-3 "The Gower Pen, S. Wales"

Wavellite in road section at 581 896
betw. Clyne Common & Bishopston [i.e. near
Barland Common]. No longer accessible.
As rad. disks in chert.

Strahan A (1907) "geol of S. Wales coalfield VIII .. around
Swansea" Wavellite

Trueman AE (1930) Sci & Field Naturalists Soc Proc. 1, 989
"Wavell. in the cherts at Bishopston, Swansea"
DFO

Wavellite abundant in brecciated
cherts in the area. Cherts in the
stream bed NE of the road cutting
may be worthy of re-examination
[S. Plant, 1998]

S. Plant & I. E. Jones (2001) J. Russ Soc. 7 [2], 79-81

Bishopton - Clyne Common road cutting
had wavellite

1" 154

ST 11-12 66-67

BARRY ISLAND, Cardiff, Glam. (I) ✓ 11 66~~See also BARRY-~~TMH (1868), 75. Celestite.

A. Morgan,
 Rocks & Mins (1960) 223 [¹⁵MA ¹⁶³6/61] galena, calcite,
aragonite; baryte - including pale blue
 xls in geodes in green marl; pyrite.
chalcopysite [NB of celestite & baryte].

FJN (1917) Baryte with celestine, in veins in
 the Carb. Lim. at NELL'S POINT [ST 120 662]
 W.D. Conybeare & W Phillips "Outlines of the Geol of Eng
 & Wales" Pt I (1822) p 289 recorded "geodes filled
 with xls of sulphate of strontian" in Barry Is,

in the "Red Marble" (Keuper Marble). — These, however, are now referred to barytocelestine, & occur as fine tabular xls, delicate blue. Some fine specimens in cavities up to 1 ft across found in excavations at entrance (deep water) to Barry Dock — anal: 43% BaSO_4 , 57% SrSO_4 .

WJL (1967) Map, p 237 Lead mine — BARRY IS.

1" 154

ST 10-4 67-9

BARRY Is. glam. (II)

~ 1168

~~See also BARRY ISLAND.~~of MARK ROCK
(PTD)

FJN (1917) Chalcedony, var. Beekite-ised fossils
 in Carb. Lim. Pyrolusite. Galena
 in lower Carb. Lim at Bendrick Rock
 132 667

[ST 131 669]. Calcite, fine scaleno- and
 rhombohedra in 1915 from cavs in Carb Lim
 in a railway cutting at CADOXTON [ST 13 69]

Dolomite, pink xls, with the galena at
BENDRICK ROCK Gypsum on coast between
 Renanth e Barry

Bevins & Sharpe "Welsh Minerals" (1982) Illust 25

Celestine, blue ~~blades~~ blades in 5 cm geode,
NMW 61.152.GR5. "JACKSON'S BAY, Barry..."
[Jackson's Bay not on OS 1" map. Possibly
on Barry Island, where celestine reported
by TMH (1868) etc.] [At 12 666]

RSN(106)⁴⁸13, MARK ROCK, at 128 667 (cf BENDRICK ROCK).
Much galena, weathered baryte & calcite.

Garfield & Wellings (2008), J. Russ. Soc. 11, 64-70
BARRY IS. mineral survey, Geol, minerals
See → (III)

BARRY ISLAND, Cardiff, Glam. (III)

[JRS (2008)] Calcite; dolomite; baryte (pink to white cockscomb & veinlets); galena; sphalerite; chalcopryrite rare; celestine in nodules, esp. W side of Jackson's Bay, blue xline to white masses (XRD; one EDS $\rightarrow 99$ wt% SrSO_4); stronbianite rare white rad on celestine; gypsum in nodules; quartz in ^{small} nodules in Carb Lim; pyrite, some alt $\rightarrow$ goethite; goethite joint fillings. Sect mine rals NOT studied; look like cerussite
hydrozincite & bindheimite. cerussite & smithsonite confirmed (XRD).

[w/ fluor]

1" 153 SS 5788-5887

BISHOPSTON Pb/Ag mines; Gower, Glam.
See also ALL-SLADE M., LONG ASH M.; BARLAND COMMON

FJN (1962) 84 A "kelly" of ore [presumed Lead
from Chapter heading] was worked near
Bishopston in Gower (W. Davies (1815) "General
View of the Agric....")

"BISHOPSTON MINE (ALL-SLADE)" SS 584 875

S. Plant (1998) RSN 32 21-3 "The Gower Pen., S. Wales"

BISHOPTON MINES along NW fault-rem
exposed in Brandy Cove [SS 585 874]. Tied
Haematitic calcite

Inland at ALL-SLADE MINE [585 875] &
further at LONG ASH MINE [574 886].

Not economic; worked late 18th, & 19th c's.
See Tucker & Tucker (1975). Silver-lead mines

Tucker M & Tucker G (1975) Bull PDMHS 6 [1] 15-27

"The Lead mines of S.E. Wales"
RSN(1999) 35, 15. Old workings, o'grown sh's
etc visible but no minerals found;
nr Lower ~~Wales~~ Hareclade farm. At BRANDY
COVE 585 874 only traces galena in
limestone pebbles.

BLAENGARW, Pontycymer, Glam.

See INTERNATIONAL COLLIERY.

11 154 ST 145 842
BLAENGWYNLAIS QUARRY, Tongwynlais, Glam.
See also TONGWYNLAIS

R. Soc. N. (1994) 25
Blaengwynlais Quarry, Tongwynlais,
Glamorgan [Grid Ref: ST 145 842] -
21 May 1994

WWB, Leaders: Gwyn Billington &
Steve Plant

Our visit coincided with that of the Sussex Geological Society (no new members signed up? Shame!) Twelve members joined the trip in rather dull showery weather. The entrance being gated we had to walk into the quarry which is worked only sporadically. Little has changed in the past 12 months. Much calcite was in evidence together with pink baryte up to 2cm thick on fracture surfaces. Goethite pseudomorphs after pyrite are quite common, with large masses of this material being collected from the scree on the right hand side towards the main quarry workings. Although the quarry has never yielded anything spectacular, as with many others a watching brief remains a sensible policy.

Blaengwynlais Quarry, (Wimpy Hobbs
Quarry) Tongwynlais [Grid Ref: ST 145
851] - 22 July 1995 RSN(195) 27

WWB, Leader: Gwyn Billington

This was the best attended meeting so far! Seven members turned out on a fine sunny morning with a nice breeze so it was not too hot for collecting. Being able to drive in made it all the better!

Although the quarry is not working at present some very fine calcites were collected, various habits being noted. Goethite pseudomorphs after pyrite to 2 cms were collected, some on calcite and others with calcite crystals on them, although these were very small. Some larger goethites (not well crystallised) with small baryte crystals, clear and opaque up to 13mm were also collected but these were scarce. Altogether, it was quite a good day out!

RSN(1996) 22 [28/4/96] calcite, goeth-pyrite
baryte → 1cm

RSN(1997) 31, 9

calcite; some baryle

goethite ψ -after pyrite;

RSN(1998) 33, 15

nodule of bright

usual + walnut-size $\frac{1}{2}$ -

marcasite. [RSN(199) 34 same]

RSN(2000) 37, 20

goeth ψ -pyrite

1" 154

ST 04 81

BOLSTON GAER, nr. Miskin

ST 0481

glam.

FJN (1962) 22. Haematite

BRANDY COVE, Gower, Glam.

See BISHOPSTON M's.

BRIDGEND glam.
See also LLANGAN

FJN(1917) glauconite, in the Sutton
Stone of the Bridgend district.

BROADSLADE BAY, glam.
(BRACELET BAY)

See SWANSEA

BROCASTLE

glam

See LLANGAN

BRYNNA PITS, Pencoed, Glam.

North FJ & Howarth WE. Proc S. Wales Inst Eng. (1928) 325:

Millerite, in Bodor Fach Seam (HK Jordan, Proc S. Wales Inst Eng ix (1876), 270).

FJN (1917) Quotes HK Jordan above: - At the Brynna-gwynon Coll. ca 1 mi E of Pencoed Stn - in ironstone a little above the Bodor Fach seam.

BUTE MINE, Llantrisant, Glam.

See also LLANHARRY, etc. MWYNDY M.; CEFN Y PARC

Cox (1937). Haematite.

FJN(1962) 95 W of the Cardiff - Llantrisant road. Haematite ore in Carb Lim, Old workings, reopened 1854. Bute + Mwyndy workings extend $1\frac{1}{2}$ mls.

FJN(1917) Bute M, at Cefn y Parc, opened 1852

1"154?

ST 04 82-3?

BUTE QUARRY

"Mid"-glam.

cf BUTE MINE, Llanthisant

CJN Fletcher & B R Young J. Russ. Soc (1988)

2, 19-23; ~~Min~~ Abs 89M/3916

Rosasite, aurichalcite & Zn-malachite
from calcite-lined vugs in carb.
lim. from Butte Q., mid-glam.

limonites are galena, sphalerite,
chalcopyrite.

1" 153

SS 50 91

CAE-MORGAN, Llanrhidian, Gower, Glam.

See also CIL IFOR HILL etc.

S. Plant (1998) RSN. 32 21-3 "The Gower Pen., S. Wales"

Wavellite near Cae-Morgan farm.
Exposures limited, much overgrown.

S. Plant & I.E. Jones (2001) J. Russ Soc. 7 [2], 79-81.

~~Wavellite in pebbles at top of cliff at SS 513 868~~
~~above~~ Wavellite in fossiliferous rotten stones in
roadside expos. nr farm, at SS 506 918. No
longer exposed.

1" 154

ST 15 86

CAERPHILLY, Glam

See also THORNHILL, ABERTRIDWR COLL, SENGHENYDD COLL;
LLANBRADACH. ^{? THORNHILL area}

FJN(1917) Pyrolusite, dendrites on joints in
Carb Lim in the ridge S of Caerphilly.

W. Adams (Trans Card Nat. Soc 2 32 (1870)) detected
lead ore in a ^{v. narrow} vein in a fault fissure
in the Van Colliery, Caerphilly.

1" 154

ST 961 924

CAMBRIAN Colly, Clydach Vale, Rhondda, Glam

S. Plant, D. Evans (2005) J. Russ Soc 8[2], 98-101

Carbonate-fluorapat interlocking
hex plates to 2mm w. "hydrocarbons"
[bituminous minerals], w. siderite, qtz,
millerite

CANDLESTONglam

FJN (1917) galena at Candleston, W of
the Ogmone (De la Beche (1846) Mem GS 1 p273)

CAPEL, Llanilterne, Glam

D. Hardman, Priv. Comm. 11/76. Baryte
in a breccia in a new road
cutting ~ 4 ml from Cardiff ~~town~~
(edge of) on Llantrisant road, near
Capel?

CARDIFF, Glam.

See also PENARTH etc., CASTELL COCH, LECKWITH, LAVERNOCK, BARRY IS.,
PEN-Y-LAN

TMH(1868), 75. Keuper Marls. Alabaster; gypsum
var. selenite.

Se L(1858) Reddish gypsum, alabaster.

J. Storrie, Trans Cardiff Nat. Soc. (1893-4, publ. 1895) 26 107
grains of native gold in New Red Marl
strata in boring an artesian well at
Phoenix Brewery, Working Street (& fluorite
minute blue cubes - quoted in FJN(1917).

FJN(1917) Plagiostoma gigantea, "beekite"-ised (var
of chalcedony), in Lower Lias of St. George's, nr.
Cardiff - in Nat Mus Wales. Fibrous gypsum

veins in Keuper marl in a deep boring at
ROATH [ST 1978].

"M.J. Minerals" Cat. (1990). Spec. ex M.G. Weller Coll.

Calcite, creamy pink specimen, with a serrated
surface; from "BLAIN GWINAS, near
Cardiff" [Probably BLAEN GWINAS. NOT
in Osgazz or seen on 1" map. Taft Well
area? Osgazz has Blaen gwnfi, at SS
8996]

1" 154

ST ~~50~~ 07 94

CARNETOWN pit, Abercynon, Glam.

BMS Newsl. (6/95) 41, 10. "Dorothy Merritt sent a remarkable spec'n of stellate smithsonite with sphalesite from the CARNETOWN coal spoil heaps in Taff Vale."

(? siderite ??)

1" 154

ST 131 827

CASTELL COCH, nr. Cardiff, Glam.

cf TAFF'S WELL, TONGWYNLAIS

Cardiff Mus: Calcite, massive, with haematite.

GeL (1858) Very fine large twinned xls
of calcite from "Castell Coc".

OS 1" 154 Castell-Coch, an antiquity, near
Taff's Well, at ST 131 827.

FJN (1917) Calcite, large scalenohedra in
cav. in l'st in the quarry under Castell
Coch. Massive baryte in quarry.

CEFN (Y) PARCLlantrisant, Glam(I)

See also BUTE MINE; LLANTRISANT

FJN (1962) 84: Near Cefn y Parc, SE of Llantrisant, galena in discontinuous veins & scattered pockets in Trias. limestone. Worked by levels & shafts. W. Davis called it the Park mine & said that it was unique in that lead ore occurred in limestone above the coal - a level cut through coal for drainage. Davis

said mine employed 500 miners ca 1770
but highly unlikely.

WJL (1967) Map p 237 Lead mine - "PARK"

26th August 1989 Cefn Parc Mine, Llantrisant, South Wales. The geology and mineralogy of the area was explained by our field leader to the fourteen members present. Also a display of representative specimens of witherite and alstonite was presented by Dr. Chris Alabaster. Once we got 'our eye in' we moved onto the mine dumps. After a little searching white pyramidal crystals of possibly witherite pseudomorphs after alstonite were collected and several specimens of alstonite crystals were found in the cavities within the lumps of dolomitic conglomerate on the old dumps.

Witherite and baryte are the common gangue minerals associated with the sulphides, galena, sphalerite and pyrite. As one would expect in this area, both dolomite and calcite are also in evidence and some fine attractive colourless small baryte crystals were also collected. An interesting site with plenty of potential. S.P.

Russ Soc News (1991) 21

Afternoon at Cefn Parc Mine, Llantrisant

Our leader Dr. Steve Plant gave a brief outline of the geology and mineralogy of the area before we all descended onto the old mine dumps.

Alstonite crystals were soon turning up together with the baryte pseudomorphs after alstonite for which this locality is well known. Other vein materials commonly found on the dumps are witherite, baryte, pyrite, sphalerite, chalcopyrite and galena.

Russ. Soc. News (1990) 20

CEFN (Y) PARC, Llantrisant, Glam. (II)

Max Wirth, Russ. Soc. Newsl. (1991) 21, 13.

1. The first locality, visited on 8th April, 1990, was at Cefn Park, near Llantrisant in Mid Glamorgan. The mineralogy of this ancient mine has been ably described by Alabaster (1990, p.1). The complex ramifications of veins, or stockwork, which made up the orebody were worked originally for lead, and the gangue, consisting largely of baryte and calcite with minor quartz, was left for the mineralogist.

On the occasion of the visit, witherite in the form of groups of white opaque crystals on a dolomitic matrix was found associated with single crystals and groups of rhombohedra and scalenohedra of calcite. Alabaster described the occurrence of alstonite at Cefn Park, as step hexagonal bipyramids, and pointed out that much of it was, in fact, baryte pseudomorphous after alstonite. This was all that was found by the writer on this occasion.

Some crystals of these pseudomorphs had perfectly plain opaque white faces. Others had a frosted appearance due to the development of minute tabular baryte crystals. Some crystals were hollow and lined with platy baryte, the presence of the cavity, pointing out the difference in density between baryte and alstonite.

In the nearby Llantrisant road cutting (A4119), visited on the same day, very small sprays and single acicular crystals dispersed on calcite were found. Subsequent examination suggests they may well be aragonite.

Reference:

Alabaster, C. 1990 "Alstonite and barytocalcite from Llantrisant, South Wales, and barytocalcite from Holwell, Mendip hills, England" *Journ. Russell Soc.* 3(1), pp1-6

1" 154 Pontypridd.
CILFYNYDD, A glam. (I)

ST 080 925

Russ. Soc. Newsl. (1991) 21

Saturday 7th April Cilfynydd Colliery Waste Tip

The meeting was attended by 38 members and our leader was Mr. Emlyn Evans. After a short discussion on the geology and mineralogy of the area, the tips were thoroughly searched for septarian nodules, a few producing small sprays of millerite crystals associated with sphalerite crystals. Quartz crystals were fairly abundant within the siderite lined cavities of the septarian nodules. One specimen of galena, an octahedral crystal to 4mm, was also collected.

Our short visit to the Cilfynydd coal tips was rewarding for our two members who found millerite. Some fine clear quartz crystals were also collected. ST 08 92

We made our way homeward on a fine evening after a disappointing last field trip of the present programme.

RSN (1998) 32 16. A
little of small millerite xls.
Siderite with small xls
sphalerite. One clear
cube-shaped 8 mm xl of
baryte on siderite. A
blue mineral (?) lining on upper

RSN(2003) 42 27 Visit. A little millerite (not
a good site for this); "v. nice" sphalerite &
"waves" (? hatchet line) & galena.

RSN('04) 45, 39 Visit. As above + chalcopryite, some
with very small malachite balls on surface.
gives these permission to be obtained.

SPlant, D Evans (2005) J. Russ Soc. & [2] 98-101
carb'te-fluorapat (vis ID), sub-mm
nox plates w siderite, qtz, siegenite

CILFYNYDD, Pontypridd, Glam (II)

RSN (1992) 23

Having reached Cilfynned early, we found small amounts of siderite with galena on, but millerite eluded us until the very end when a large boulder which had shown itself to be rich in the mineral was 'dragged back', not without considerable hardship to the car.

We pronounced ourselves to be satisfied with the results of the long journey and thanked Gwyn profusely before setting off for the North.

P.S. The boulder was rich but only half a dozen micro sprays were obtained, the large crystals falling off as the boulder was attacked at a later date. It would seem that trimming has to be done fairly quickly before the needles become brittle - perhaps as they dry out - as they showed no sign of falling off in the field.

"Cilfynned, Abercyn" H. Critchley

1" 153

SS

50 92

CIL IFOR HILL, Llanrhidian, Glam.

See also PWLL-DU HEAD; CAE-MORGAN; BARLAND COMMON

FJN(1917): W.E. Logan, Second Ann Rep. Swansea Phil.
 & Lit. Inst (1837) 23. Wavellite in the joint
 of a whitish-yellow close-grained sandstone, ^(Mell) _{grt}
 used for building, at Cil Ifor Hill, near
 Llanrhidian [SS 4992] in the Gower Peninsula.
 Also abundant in all the quarries in
 which the rock was worked within 2 ml
 from Cil Ifor Hill.

OS 1" 153 shows "Cilifor Top" at SS 50 5924

GR 3/73 Wavellite, colourless to pale green radiating - occasionally in spherule-sections up to ca 1 cm, in joints in old overgrown quarry at SS 504 926, on NE side of Cilifor Top.

S. Plant (1998) RSN 32, 21-3 "The Gower Pen., S. Wales"
Wavellite in area of Cilifor Top [505924] & near Cae-Morgan farm to S. [5091] (q.v.)
Exposures much overgrown, limited.

S. Plant & I. E. Jones (2001) Thriss Soc. 7 [2] 81. Wavell.
@ SS 504 926, Cil ifor Top. gold-yellow acidic red discs to 10 mm diam. [Photo]

1" 153

SS 613 512

CLYNE WOOD Colliery, nr. Swansea, Gower, Glam.

S. Plant (1998) RSN 32 21-3 "The Gower Pen., S. Wales"
Ian Jones reports a single millerite
specimen from Clyne Wood Colly [n 613912]

COED ELY COLLIERY, Tonyrefail, glam.

North FJ e Howarth WE Proc. S Wales Inst. Eng. (1928) 360 [Discussion]

Millerite in clay ironstone assoc. with the
Pentre Seam.

M/C Mus. Millerite, spec. pres. 1965 by C. Horton?

Rudler (1905); Strahan et al. geol of S Wales Coalfield
Part IV, Mem G. Surv. (1903) - Pontypridd/Maestog.
galena in the underlay of a coal
seam near Coed Ely. (Also mentioned
by FJN (1917))

WJL (1967) Map. p 237. Lead mine - "COED-ELAI"

D. Hardman, Priv. Comm 11/76. Millerite
on tips near ST 011 861 ~~just~~
on hill slope NW of village

S. Plant (2002) Rus. Soc. N'le H 40, 33-35. "Coed Ely
Re-visited". History. 1905-1985. Now
levelled & contoured. Mins mostly in cavs
in ironstone nodular:-

Aragonite (? "tentative ident."); baryte → 2cm, one
with inclusions of millerite; later; ch'pyrite;
dickite (pearly white; 1R); galena; "hydrocarbons"
specif "hatchettine"; mal (rare, on Cu py);
marcas; millerite ("prolific"); pyrite; qtz; siderite;
siegenite; sphal (incl "ruby").

1" 153

SS 835 800

CORNELLY QUARRY, Porthcawl, Glam.

R. Soc. N. (1994) 25
Cornelly Quarry, Porthcawl, Wales [Grid
Ref: SS 835 800] - 4 June 1994

SB, Leader: Jim Goulding

Cornelly Quarry is operated by the Cambrian Stone Co. and is a member of the Wimpey-Hobbs Group. This visit was suggested to the author by Anne Dugdale, Wimpey-Hobbs' Environmental and Planning Officer, who is always helpful. Jeremy Elvins, Wimpey-Hobbs' Geologist, didn't know if there was any interesting mineralisation in the quarry and said it would be useful if our members could go and find out.

The quarry is enormous and produces huge quantities of crushed limestone. Twelve members attended this visit and spread out around the quarry to look for mineral veins, keeping away from any working vehicles and machinery as requested. The conclusion of our visit on this occasion is that there is nothing of any mineralogical interest at Cornelly except for a few calcite veins.

Although a drizzly start to the day, it was dry while we were in the quarry. During the afternoon five members looked along Porthcawl Beach for rumoured lead veins or any other mineralisation. This proved to be fruitless and we were driven off by heavy rain.

154 55 99 74
COWBRIDGE glam.

See also ~~BRACKE~~ LLWYNN

Gr L (1858) Extensive beds of haematitic
conglomerate at Cowbridge

FJN (1917) Galena fragments in the Sutton Stone
near LLWYN HELYG [SS 990 751] (Bridgend Memoir
GS (1904) p 67)

1" 154

Cent on. ST 086 818

CREIGIAU QUARRY, Creigiau, Penttyrch, Glam.

RSN(1997) 31, 17-18, 9. Working. Abundant "high quality" calcite, various forms & colours. galena, with cerussite, Malachite, on previous visit. haematite. specular anglesite (?)

RSN(1998) 33, 14, 19. Beautiful good calcite. Quartz crystals, some smoky. Malachite; galena. pk w. goethite. eg on Level 2.

RSN(1999) 34. As above.

RSN(2000), 36, 25 ~~Visit.~~ As above + baryte

CROGAN QUARRY, glam.

MA 2 350 Celestine crystals

? = COGAN, ST 1672?

1" 153

SS 7892

CWMAVON

glam

See also ABERAVON SANDS

FJN (1962), 88. Clay-ironstone (mainly siderite)
mined near Cwmavon.

1" 154 (?) ST 2 8 (?)
CWMLEYSHON QUARRY, nr Draethen, ~~Mon~~ (I)

See also MACHEN (MON); DRAETHEN Glam.

Cwmleyshon (and Machen) Quarries Mon
4th August 1991 RSN (1991) 22

Seventeen members and two visitors met at Cwmleyshon Quarry at 10.00am. On proceeding to the top level of the quarry, good specimens of hemimorphite were found and baryte associated with galena and cerussite crystals was plentiful.

Some excellent specimens of dolomite crystals were collected. A few members were lucky enough to find some small botryoidal incrustations of smithsonite, a rarity at this locality, and one specimen of octahedral galena.

Bevins (1994) Nr Draethen,
Glam. Vg baryte xls;
hemim xls to > 15 mm

~~CWMLEYSHON Q.~~ ^{near Draethen, Glam}
~~MAKINEN, Aber~~ ^{Machen,} Mon. (II)

Russ. Soc. Newsl. (1991) 21

**Friday 6th April Cwmleyshon Quarry,
near Machen.**

The quarry which ceased working three years ago provided the venue for the first meeting of the week-end, and was well attended by 18 members.

Mr. Allan Dean our leader, gave a brief outline of the geology of the area and of the minerals we could expect to find in the quarry.

Very little mineralisation is seen in the lower benches, but on gaining the upper benches of the quarry we collected some excellent specimens of hemimorphite. Some of the crystals were over 15mm in length, varying in colour from orange to colourless, transparent. Small crystals of smithsonite were also found in the north-east corner along with galena and cerussite crystals.

In the north-western corner of the quarry, two old lead mine levels were exposed and here we collected baryte crystals and a few small samples of sphalerite (not seen at this locality previously).

CWM FFORCH-WEN, Pontycymmer, Glam,

FJN(1917). Refers to Pontypridd Mem GS (1903) p 84:

Films of kaolinite lining fissures in the Pennant Grit espec. where faulted, eg at Cwm Fforch-wen in the Garw Valley, where seen in situ, but may also be found among the debris from old workings in the disturbed area

["Fforch Wen" SS 915 910?]

1" 154 (?) ST 13 73
CWRT-YR-ALA Wenvol (?) Glam
See also WENVOE

FJN (1917) Haematite in a small fault at
N end of small outlier of Carb. Lim. at
Cwrt-yr-ala.
[Not in OS Jazz.]

CYMMER, nr. Porth, Glam.

[probably = Siegenite]
↑

Howarth, W.E., Geol Mag (1928), 65, 517-518. Linnaeite (Co_3S_4),
minute octahedra on dolomite or ankerite, or on millerite;
with calcite; kaolin; blende; chalcopryite; ? hattchettine,
lining septarian cracks in clay-ironstone accompanying
Two Feet Nine Seam and Five Feet Seam.

North FJ e Howarth WE, Proc SWales Nat Eng 325 (1928)
Millerite in Two Feet Nine Seam e Five Feet Seam,
(Specs in Nat Mus Wales - donor Mr. G.F. Martyn) in septarian
cracks in clay ironstone, with dolomite, calcite,
kaolinite, linnaeite, blende, chalcopryite, ? hattchettine.
Clear secondary calcite rhombohedra, enclosing millerite.

Chalcopyrite & blende later than millenite.

RSWB et al (2/64) IV 73 Old dumps around
020910. Millerite dolomite chalcopyrite,
galena. Some millenite altered to an
insol translucent green mineral? Jamborite
(4/64) IV 89-90. Millerite; hatchettine v quartz,
x/s, some with included hatchettine.
Some millenite penetrating baryte (GR).

DOWLAIS, Merthyr Tydvil, Glam.

North FJ e Howarth WE, Proc S. Wales Inst Eng (1928) 325
Millerite in Spotted Vein (The Iron Ores of Gr. Britain,
 Part III, The Iron Ores of S. Wales (1861), 209).

WM Miller, Phil. Mag (1842) 20, 378. Millerite, first
occurrence in S. Wales, 6 5.278
 FJN (1917) quotes Miller (1842) also The Spotted Vein
 occurrence.

MJ Wilson (1978) MM 42 290-1 Thauemasite
in slag from "White Tip" of Dowlais Iron Works
on N side of A 4060 ~ 600 m NE of Farmers Arms
 50 067 071

DRAETHEN, Caerphilly, glam.

See also RUDRY; MACHEN (Mon) etc. CWMLEYSHON Q

Cox (1937) Impersistent veins of galena with barite, worked ca 1850, near Rudry, Draethen, & Machen.

FJN (1962) 85 As above. One said to have been washed in Draethen Brook near "Cwm Glesyn."

FJN (1917) As above, washed in Nant-y-Draethen, near "Cwm Leyshon"

WJL (1967)

Map, p 237

Lead mine

DUNRAVENglam

See also SOUTHERN-DOWN

FJN (1917), Gryphoea coated with chalcedon
(WD Conybeare & W Phillips "Outlines of the geol
of Eng & Wales" Pt I, p 265 (1822)). galena in
fossil plant remains (De la Beche Mem & S (1846) I 273)
OS 1" map has "Dunraven Castle" at SS 8872

1" 154 50 0 0 " "

EBBW VALE, ~~MONMOUTH~~, Merthyr Tydvil, ^{Glam}

See also MERTHYR TYDVIL.

NB EBBW VALE is in MON!! [qv]

GM Spec: Millerite in clay ironstone nodule. - at
Ebbw Vale Iron Works.

1" 154

ST 00 07

FERNDALE No. 1 PIT, Ferndale, glam.

→ [Probably = Siegenite]

Howarth, W.E., Geol Mag (1928), 65, 517-8. Linnaeite (Co_3S_4), minute octahedra on millerite or on dolomite, lining a vertical crack in granular pyrite in Two Feet Nine Seam, with kaolinite & chalcopryrite.

North FJ & Howarth W.E. Proc SWales Inst Eng (1928) 325.

Millerite in a lenticular mass of black granular iron pyrite assoc with brassy yellow pyrite in coal seam itself rather than in nodules in shale. Assoc. with dolomite blende; chalcopryrite; linnaeite; kaolinite v/s.
(Spec. in Nat Mus Wales - donor Mr. J. Spencer Richards)
9m Two Feet Nine Seam

FFOREST FAWR, Glam.

See also TAFFS WELL, etc.

FJN (1917) Iron ores - haematite & limonite
worked here [~~of~~ Castell Coch; Tongwynlais; Rhiwbina]
Some haem. mines shown on the 6" G.S. map

GARTH WOOD MINE

glam.

See also LLANHARRY, etc. TAFFS WELL

Cox (1937) Haematite & ochres.

FJN (1962) 94; Fig 6. At Taffs Well. Haematite
in dolomitic limestone - GARTH MINE
from hill of that name Description

FJN (1917) Iron ores in Carb. Lim. - near Penttyrch
Opened early 19th Cent., opencast. A level
driven ca 1842 into N face of hill. Abandoned
ca 1885 after $\approx$ 1 million tons ore worked. Ore was

haematite & limonite, much silica in
upper levels. Calcite, huge scalenohed.
in cavs in 1st in LITTLE GARTH Fe Mls

Paul 9/82 Priv Comm. Quartz;
calcite rhombs; haematite small
specular xls; goethite small
needles, sometimes projecting from
the quartz xls.

1" 154

SS 982 945

GELLI Colly gelli, Rhondda, Glam.

S Plant & D. Evans (2005) J. Russ Soc. 8 [2] 98-101

2 spec. carb'te-fluorapat, interlocking
hex plates → 5 mm.

1" 154

SS 98 90

GILFACH GOCH,

glam

How can it be ??

BV Cooper.

tips at
goch

Millerite (?)

SS 975 908,

on colliery
above Gilfach

1" 152-153

SS

GOWER PENINSULA, Swansea, Glam.

Cont on SS 5090

TMH(1868), 75.

Dev. & Carb. Lim.

haematite.

galena; manganite;

GROES-FAENglam

See also GWERN EFA

Cox (1937) Trials for lead "a few years ago" on
veins in a limestone band.

FJN (1917) galena in thin strings, with
baryte, in Carb Lim.

(E)

GWAR COCH, Porthcawl, Glam

See PORTHCAWL

154 ST 07 81
GWERN EFA

glam.

See also GROES-FAEN

Cox (1937) Near Goes-Faen (070810). Lead is
said to have been raised long ago
from a shaft on small veins in Trias

FJN (1917) Ca 1 ml SE of Llantisant. Galena
worked from a shaft in Trias

HENDY MINEGlam.

See also LLANHARRY etc; MWYNDYM; BUTE M.
HENDY Q'y.

FJN(1962), 97: Opened in 1919 immed. E of
Pont-y-clun. Short life haematite mine.

1" 154

ST 055 812

HENDY QUARRY, Miskin, Glam

See also HENDY MINE

R. Soc. N. (1994) 25

Hendy Quarry, Miskin, Wales [Grid Ref: ST 055 812] - 5 June 1994

SB, Leader: Jim Goulding

A visit to Hendy Quarry is always pleasing because of its potential, its ease of access and its bird life. There is usually a chance to find some nice specimens, albeit mainly micros.

The layout of the quarry has changed beyond recognition since our last visit during 1993. The level area where cars are usually parked has gone, and large numbers of large limestone blocks have been piled up in a number of places. We were able to park our cars on a flat area of the quarry floor close to collecting sites. Only six members attended this visit, possibly because of earlier poor weather.

No fresh lead or copper veins were found, but it was possible to identify previous places where good specimens had been found. Soon, good malachite and aurichalcite were collected. Minor azurite, although not of previous quality, and some nice calcite were also collected.

RSN (1994) 24

A weekend in June 1994 for the devoted collector. In 1992 South Wales was selected and visits to Vaynor Quarry, the National Museum of Wales and Hendy Quarry proved both interesting and rewarding. Excellent microcrystals of azurite, malachite, aurichalcite and possible rosasite were unearthed at Hendy. 24

Hendy Quarry, Miskin, Mid-Glamorgan
[Grid Ref: ST 055 812] - 2 July 1995

SB, Leader: Jim Goulding RSN (195) 27

of the quarry, with few defined levels. Access appears to be by an outer vehicle road around the outer limits of the quarry, with a minor road to a slightly lower level where we parked our cars. Consequently, in order to reach an area on a higher level, close to where the cars were parked, it was necessary to walk around the outer road for about a mile to arrive back where you started! All parts of the quarry are now dry, but the area where azurite was once found seemed to be barren of this mineral. Good malachite was

found in calcite boulders, with galena and goethite pseudomorphs of chalcopyrite. Two areas produced boulders in which malachite and aurichalcite were found, but not of the quality of some previous visits. A secondary lead mineral, found with galena, may be anglesite and needs investigation.

A new mineral for Hendy Quarry, found by Colin Hayes, was bright canary yellow on massive sphalerite and is probably greenockite.

It seems that most members obtained specimens of most of the usual Hendy minerals (except azurite). Like all working quarries Hendy is constantly changing. The fact that Hendy has copper-zinc-lead mineralisation ensures that it always a place with potential.

RSN(1997) 31, 9

Aurichalcite, brill.
coloured balls $\Rightarrow$ 4mm.

Malachite, galena,
calcite (fluorescent).

RSN('97) 34. Nothing new

HOPKINSTOWN, Pontypridd, Glam.

North FJ & Horroath WE. Proc S. Wales Inst Eng. (1928) 325:
Millerite spec in Nat Mus Wales - donor Mr. D.A.E.
Evans

1" 154

SS 906 931

INTERNATIONAL COLLIERY, Blaengarw, Pontycymer, Glam.

RSN (1997) 31, 9. Reclamation scheme
current for old INTERNAT. COLL'y, closed
1967. Lower tips reclaimed, seeded,
but dumps near top of mountain
yielded some ironstone nodules, with
millenite sprays to 3cm, galena,
chalcopyrite; occas. doubly-term
quartz xls to 2cm. Siegenite,
0.5mm silvery-shite octah.

KENFIG POINTglam.

FJN (1917) Chalcedony "potato-stones", enclosing
small xls quartz. (De la Beche (1846) Mem GS 1 243, 246)
Specks of galena said to occur in the
Trias breccia masses projecting through the
sand at KENFIG BURROWS. Galena also
in a Trias/Millst grit fault at KENFIG HILL

OS 1" 153 Not shown. Kenfig is at SS 8081

LAVERNOCK, Cardiff, Glam.

See also PENARTH etc.

TMH (1868), 75. Lias & Keup. Marls. Alabaster; gypsum
G & L (1858) "Lavenock" alabaster

FJN (1917) Pyrite in the Rhaetic bone-bed.
Calcite, impure fibrous "keef" in thin bands
 in the cliff section. Alabaster (gypsum)
 tiles of Univ. Coll. Cardiff from levels in the
 cliffs near Lavernock. I also worked in Trias
 marls SE of COG [ST 1669]

1" 154

ST 1574

LECKWITH, Cardiff, Glam.

TMH(1868) 75. }
GEL(1858) }

Alabaster

LLANBRADACH, glam.

North Fd e Howarth WE. Proc S. Wales Inst Eng (1928) 325:

Millerite, in Four Feet Seam - (Dr H.K. Jordan, Priv.
Comm.).

FJN (1917): Pyrite perfect though small octahedra
Millerite, Llanbradach Coll.; above Four Feet seam

154 SS 94-5 76
LLANGAN area, Bridgend, Glam.

SRMRGB II "Ba" (1916) 73 LLAN-GAN MINE, $\frac{1}{4}$ ml
S of Llangan village [SS 9577], near Jelliaraul.
Small dump containing fairly pure baryte,
xline, & in part of a violet tint, from veins
in Lias, worked in the 1870's. Some lead
produced. Further shafts towards Penllyn
[SS 9776] See also Cox (1937)

Cox (1937). Two baryte-calcite-galena veins,
trending WNW, 200 yds E of the 3rd milestone
out of Bridgend, by the roadside [i.e. SS
942 767 ?]. Thin veins of baryte with

some galena in quarry 200 yds N of
Ty-Pica [SS]. Baryte vein formerly worked
300 yds SW of Twmpath [SS 9576]

FJN (1917) At Langland Farm, near Brocastle
[? LONGLAND SS 932 775], 4 ml W of Cowbridge,
a galena vein 3' wide in Carb Lim., "mined"
to 50 ft. Also baryte-galena vein
yielded ca 140 tons Pb in 1877-9 from a mine,
with a 150 ft shaft, at Llan-gan. Small
veins baryte in Carb Lim at TY-PICA & at
TWMPATH [v supra]

WJL (1967), Map, p 237 Lead mine - "Tewgoed" [SS 9676]

LLANHARRY, Glam.

See also LLANTRISANT, MWYNDY M., TRECASTLE M., BUTE M.,
GARTH WOOD M. HENDY M.

Cardiff Mus: Calcite, 4" long doubly-terminated,
slightly iron-stained scalenohedra on crust of dog-
teeth. Illustr Bevis & Sharpe (1982).

TMH (1868), 75: "Llanharry, Llantrissant" - Haematite,
in Coal-measures

D Hardman (1968) purchased good pyrite x/s
"from Llanharry".

GR, GS (4/64) IV 91. Calcite; haematite,
including specular; ochre in large lumps;
goethite, massive → mammillary, with yellow to
red tinted surface; quartz, small clear x/s
Mine at ST 018 810 working in 1964

FJN (1962) 94; Fig 6. Haematite ore in
Carb Lim. 96 A small mine between
Llanharry & Llechau [ie near 01 80]
worked 1885-1899. Present mine opened
1910 - v. high quality ore. Description pp 96-7.

FJN (1917) Haematite & limonite worked in the area.

LLANRHIDIAN, Glam.

See CIL IFOR HILL

LLANTRISANT, Glam. (I)

See also RHIWSAESON; M'WYNDY MINE, LLANHARRY, BUTE M.,
CEFN Y PARC

TMH(1868), 75. Haematite, in Coal-m's.

Cardiff Mus: Barytocalcite, small colourless
needles in vugh; baryte; white opaque xls;
siderite, small iridescent rhombs.

T.M. Thomas Geol Mag (1968) 105 185 (MA 20 171)
Celestine [but q.v. C. Alabaster (1990)]

FJN (1917). Chalcedony "potato-stones" enclosing quartz
xls, also similar but solid agate* nodules,
"in the neighbourhood of Llantrisant, eg at Parc
* Pontypridd Memoir (1903) p 96. Gwyllet.

Haematite & limonite worked in area since

ancient times

W Adams, Proc S Wales Inst Engineers 5 (1867), 194 records
pyrite to a limited extent in the iron mines
at Llantrisant.

Baryte with galena in lower or "Bastard" L'st's
at MAES MAWR, near Llantrisant

N. Hubbard Priv Comm 4/82. In road cutting
of Llantrisant by-pass a friend found
massive witherite then vugs with
fine large bipyr xls. Even better said
to have been found by R. Barstow

LLANTRISANT, glam. (II)

C. Alabaster (1990) J. Russ. Soc. 3 (1) 1-6

Dolomitic conglom. well exposed in road cutting at ST 053 820. Has ovoid, calcite-lined geodes to 25 cm diam, in saccharoidal dolomite, with, also, witherite, minor baryte, chalcoprynite grains sometimes sect Cu minerals, rarely quartz & at S end (ST 053 819), very sparingly alstonite in dolom-lined microcavities.

There are 8 old mining sites in Pb-Zn mineralisation (also Fe-Cu-S) in narrow

with Calcite-witherite-dol-bar.
fissure fillings in the area. One such
site is at ST 063 824 (The "BK 3" site
of Bowler & Kingston (1970) Proc Univ of Wales
Intercollegiate Colloquium, Univ Coll. Cardiff, 1971, pp
30-32), and alstonite occurs here more
abundantly in dol-micro-xl lined cav's & as
minor component of some brecciated veins.
- clusters of ψ -hex acute pyr xls $\rightarrow$ 6 mm,
greyish to pinkish to c'd. ass. with
calcite witherite baryte, sulfides (mainly
pyrite). In breccia-ore galena, pyrite, sphal,
rare chalcopy, in witherite gangue. Quartz
rare.

Celestine-ba-Ca geodes reported from
the bypass by Thomas (1968, Geol. Mag 105
185-186)

LLANTRISANT, glam. (III)

not found by us or by Bowler & Kingston (1970)
- the witherite has traces of Sr only.

Prior's baryto calcite (in North (1916) Trans
Cardiff Naturalists' Soc, 49, 16-51), possibly
from Mabyndy Fe mine is BM 62133 & has
been confirmed by RFSymes (pers comm) &
matches a spec. labelled from Llantrisant
area in Nat Mus Wales, NMW 25.554. GR7.

LLANTRITHYDGlam

Cox (1937) Small lead veins, worked in 1850's.

FJN (1962) 84. Shafts & levels at Pentre
near Llantrithyd, in the Vale of Glam.
[Pentre ST 041 734].

FJN (1917) galena, specks in limestone, also
argentiferous, in veins with calcite.
galena in Lias shelly l'stones at TAIR ONEN
nr Llantrithyd [ST 03 74]

1"153

SS 574 887

LONG ASH MINE, Bishopston, Glam

See also BISHOPTON MINES, ALL-SLADE MINE.

S. Plant (1998) RSN 32 21-3, Part of BISHOPTON
MINES, silver-lead; on NW vein.

Tucker & Tucker (1975) Bull. PDMH 6 [1], 15-27
"The lead mines of SE Wales"

MACHEN, "glam"

See under Monmouthshire

MAEN LLWYD MINE, Caerphilly, Glam

See RUDRY

1" 153

SS 85 91

MAESTEG

Glam

FJN (1962), 88. Clay-ironstone (mainly siderite)
mined near Maesteg

"MARGAM" opencast, Ffordd-y-Gyfraith, Glam.

See PARC SLIP

1" 154 50 0 0
MERTHYR TYDVIL, Glam. Cont on 0506
See also EBBW VALE, ~~near Merthyr~~ (Mon), & VAYNOR Q'y (Brecknocks)
DOWLAIS [siderite]
TMH (1868), 75. Coal-m's. Chalybite; haematite.

Ge L (1858), also Rüdler (1905) Rutile in cavities
in clay ironstone, occasionally, near M.T.
[Probably = millerite].

FJN (1917): Quartz in clay ironstone nodules, known
as "Merthyr diamonds" [But Merthyr Tydvil not
implicitly given as locality]. Hatchettine
noticed by J.J. Conybeare (Ann Philos N.S. 1 1367
(1821)) lining cracks in the clay-ironstone
nodules at Merthyr assoc w. xls of quartz & calcite.
Since been found elsewhere in E part of coalfield espec. in "Three-quarters
Balls" ironstone

MJ Wilson MM (1978) 42 290-291

Thaumasite white fluffy or felted, common
in fillings & encrustations in weathered
furnace slag on 2 old tips:-

- (1) Dowlais slag heap - "White Tip" on N side of
A4060 ~ 600m NNE of Farmers Arms (SO 067 070)
between Pentrebach & Dowlais Top
- (2) Cyfarthfa slag heap immed S of The Heolgerwig
road ~ 400m N of Merthyr Rugby Club (SO 043 064)

"153

SS 6286, 6287, 6387

The MUMBLES, Gower, Glam.

5. Plant (1998) RSN 32 21-3 "The Gower Pen., S. Wales"

From Limeslade Bay [SS 6286] to Mumbles Head [SS 6287], several prominent N-S

calcite veins w. haematite (worked for Fe).

Middle Head Islet [SS 632 873] has a calcite vein up to 4 m wide, with galena, dolomite, poss. fluorite (Foster-Smith, 1981).

On Mumbles Hill above the pier [SS 627 875] c'less fluorite xls found on small dumps in the 1980's by A. Dean.

Foster-Smith JR (1981) "Non-Ferrous mines of S. Wales
area" Brit Minny 18. Northern M. Res. Soc.

MWYNDY MINE, Llantrisant, Glam. (I)
See also LLANTRISANT, etc. BUTE M.

Cardiff Mus: Amethystine quartz on iron ore.

Cox (1937) Red & yellow ochres

Vivian, W. MM (1876) 1, 18; (1877) 1, 117. "Carbonate of lime"
[Calcite, ?]
quartz. Beautiful crystals of quartz
enclosing needles of oxide of iron (Rudler 1900)
- "limonite")

Vivian, W. Trans. Cardiff Nat. Soc. (1870-1871) (publ 1872)
vol 3, pp 1 & 79. "The Mwyndy Mines"

FJN (1962) 95. E of the Cardiff-Llantrisant road
Haematite ore in Carb. Lim. Worked
from mid-19th Cent. Mwyndy + Bute
mine workings extend $1\frac{1}{2}$ mls.

FJN (1917) Quartz, including clear colourless xls, some
doubly term., in cavs in the iron ore, & encrusting
delicate limonite stalactites. Some also
amethystine, others contain oxide of iron $\rightarrow$ yellow,
amber, red. Mine reopened 1855, yielded
ca $1\frac{1}{2}$ million tons of ore before abandoned.
Haematite, often siliceous ("blue ore"); ochreous
limonite. Ore replaced top beds of Carb. Lim.
Chalcopysite, not common. Calcite xls some
with inclusions of iron oxides (Vivian & Collins (1876) p17)

MWYNDY MINE, Llantrisant, Glam.(II)

FJN(1917)(cont'd): Siderite; barytocalcite, one
sp., pres. to BM by Col Rimington in 1886 from
"Glamorgan". Dr. G.T. Prior describes spec. - small
white xls e massive, with pyrite e limonite
on ferrug. quartz - from this association,
probably from Mwyndy, but no published record
[see LLANTRISANT]. Baryte, small tabular
xls, with the iron ores. "Mountain leather"
[? palygorskite] thin fibrous brownish sheets [v. infra]
with the Fe ores a small spec. is in Nat Mus W

AJ Criddle & RFSymes MM (1977) 41 90, Addendum.

3 spec's of palygorskite from Mwyndy
mine confirmed by X-ray

Russ. Soc. Newsl. (1991) 21

After Cefn Parc mine...

At the nearby old Cornish engine house of the Old Mwyndy Mine, we found malachite, baryte and hematite.

153

North Port Talbot Unplaced

NANT HELEN opencast

glam?

Mon?

BMSN(2005)70, 12-13. BMS Coll [Col. D. Evans]

2401 → 2404. From bench No. 4 now backfilled
of an old colly site - site manager did not
want to reveal exact location: - Broken
leppard siderite xls, calcite, minor millierite,
ankerite, chalcopry, siegenite.

NEW BEAUPRE, glam

See ST. HILARY

1" 153

nr Porthcawl

SS

8

7

8

8

NEWTON NOTTAGE, Bridgend, Glam.

See also PORTHCAWL

TMH(1868), 75. Carb lim. Haematite; pyrolusite

[Newton is at 8377; Nottage at 8178. "Newton Nottage" is a parish name]

"NEWTON MINE" around quarries in 84 80

OGMORE-BY-SEA, St. Bride's Major, Glam.

RSN(1997) 30, 18. On foreshore: galena,
sphalerite, a small amount of nat. sulphur
found by Bob King. On to old dumps at
top of cliff - baryte; small cubes galena.
"Agate geodes found on other side of the
estuary" [Porthcawl area]

1" 154 SS 93 90
OGMORE VALE, glam. (I) → 93 92

North FJ & Howarth WE. Proc S. Wales Inst Eng (1928) 325:
Millerite in clay ironstone assoc with Two Feet
Nine Seam, with ankerite, quartz, chalcopryrite,
?hatchettine. 1 Spec. in Nat Mus Wales (Donor,
Mr DL Richards, Wyndham Colliery.) [93 91]

Re C. Little. Spec → RSIB 5/74 (74-127) Millerite
(in septarian ironstone), coated with
green ? zambonite / retgerite ??
Partial ψ morph outside → inside.
(core of unaltered millerite)

R.E. Bevins & J.M. Horák, J. Russell Soc. (1985) 1(3) 83-5

Siegenite, anal. near $(\text{Ni}_{1.6}\text{Co}_{1.3}\text{Fe}_{0.1})\text{S}_4$,
small silver, metallic octahedra
assoc. w. millerite in clay-ironstone
nodules from dumps at Wyndham Colliery,
are not linnaeite as previously reported.

I. Geldart (1986) BMS Newsl. 18 "Wyndham mine,
Mid Glamorgan"

1" 154 OGMORE VALE

SS 940 918

PRICE TOWN VOLCANIC, Ogmore Vale, Glam. (II)

Price Town
SS 93 92

Beryl Taylor (1987) Showed RSOB a specimen showing part of a cavity in ironstone, with excellent xls paleish brown sphaerite; millerite; calcite flattish rhombohedra, all on clear colourless quartz. On these, curious white 6-rayed star twins:

NOT soft to needles

∴ NOT kaolinite group.

Insol. dil HCl - no fizz, cold

∴ not aragonite group

Insol. dil H₂SO₄ - does not go white.
cold



$G, n > \text{CHBr}_3$

$G > \text{CH}_2\text{I}_2$

$n < \text{CH}_2\text{I}_2$

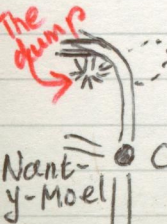
∴ $G \sim 3.4-3.5$

$n \sim 1.7$ Diaspore??
(Pro)

(Diapspore, ψ -hex twins; $G, 3.3-3.5; \alpha 1.702, \beta 1.722, \gamma 1.75$)
Siderite $G 3.9 \quad E 1.6331 \quad W 1.8728$

Beryl Taylor Priv Comm, 9/88 Have relocated
the exact ~~spot~~ spot and found some
"stars" (very little, & after long searching!)
Is a dump of Wyndham Colliery.

The original specimen
found by Fred Rowser
not Beryl Taylor.
at Price Town, at 937 926


Nant-y-Moel

B. T. 9/88. Had it X-rayed "= siderite"
Fts G, m reasonably. "Sinclair's Gemstones
& Mineral Data Book" says siderite almost unaff.
by cold acids, sol. in hot. Checked:
in sol cold f'd HCl even on crushing. — heat — efferv!

1" 153

SN 8310

ONLLWYN

glam.

See also YNYSCEDWYN

FJN (1917) Pyrite, in the Brass Vein.

1" 154

SS 938 963

PARC Coll'y, Cwm Parc, Rhondda, Glam.

S. Plant & D. Evans (2005) J. Russ Soc. 8 [2] 98-101

~~1~~ < 0.5 mm hex opaque white xls are
probably carbonate-fluorapat; not
analysed

1" 153 PARK SLIP

"SS 850 838"

MARGAM OPENCAST, Ffordd-y-Gyfraith, glam

Ffordd-y-G not on 1" OS 153; Margam is indust suburb
of Port Talbot, cent on 7887; Margam forest is cent. on
8289. SS 850 838 is near Kenfig Hill (qv).

of PARK SLIP WEST

RSN(2001) 39, 17. P. Todhunter. Coal opencast. In
lowest part large clay-ironstone nodules, also
on dumps. Have millerite, some coated w.
green; sphal & galena xs pierced by miller.
"At SS 850 838". Siderite.

RSN('05) 46 38. T. Colterell. Working. Nice
fluorapatite fls, in micro- "flying saucer" habit,
occas. more prismatic. Mercesite, v. minor
millerite.

RSN('06) 48, 13, In ironstone nodules, good
marcasite, "v nice" sphalerite, hatchettine,
fluorapatite, minor millerite.

PARK MINE, Llantisant, Glam.

See CEFN Y PARC

1" 153

SS 864 839

PARK SLIP WEST OPENCAST,

Glaem.

PARC SLIP

RSW (1997) 319. Opencast coal mine; working.
Some millerite, a little chalcopryte,
galena, sphalerite; ?-marcasite in
ironstone nodules.

S. Plant & D. Evans (2005) J. Russ Soc. 8 [2], 98-101
Carbonate-fluorapatite, v. rich, coll
2004 in ironstone septaria, often
completely lined w. hex plates $\rightarrow$ 2mm, w
siderite, millerite.

PENARTH, Cardiff, Glam. (I)
 See also SEVEN SISTERS CLIFF; LAVERNOCK, ~~Wales~~

TMH (1868), 75. Lias. Gypsum; selenite.

Cardiff Mus. White alabaster from Trias Penarth;
 Massive Baryte from Rhaetic - Seven Sisters Cliff.

Cox (1937) Gypsum beds underlie the Penarth district & are visible below Penarth Head & at point S along coast to Lavernock. [ST 1868]. Formerly worked from a level in cliffs S of Penarth and at a place 1 ml inland from Lavernock.

WS Boulton Trans Cardiff Nat Soc (1910) 43 36. Let
 at Lower Penarth. ST 1869

MA 2 350 "green copper carbonate" [malachite]
in the Penarth gypsum

FJN (1917) Small quantities of MnO_2 [pyrolusite]
assoc. w. baryte in fissures in Lr. Lias
at the Penarth Cement Works.
Pyrite in the Rhætic bone-bed. In the
Lr Lias at Penarth quarries, milky-white
celestine, in flattened tabular xls, but so
closely packed that only edges visible.
Gypsum on coast between Penarth & Barry
Fibrous gypsum from Rhætic Black Shales
(Etheridge (1872) 48)

Bevins & Sharpe (1982) NMW 68.293.GR3 Malachite on gypsum
"Penarth Head"

PENARTH, Glam. (II)

RSN(1997) 30, 18. Strontianite ("after a fairly long walk along the beach"); small xls. ✓ Massive celestine. (From the car-park)

RSN(1997) 31, 9 Strontianite, small sprays of xls to 2-4 mm. Gyps, incl "satin spar" to 5 cm., massive celest.

M Wolfe (1996) UKJMM 17 4-6 "Min. News". Pale blue celestine with gyps & malachite in a rockfall from coastal cliffs nr. Penarth.

RSN(1999), 15, 16. Foreshone gave strontianite,
good crystalline; massive celestine

PENCOED, Glam

See BRYNNA PITS

PENTRE

glam.

See LLANTRITHYD

1" 154

ST 120 785?

PENTREBANAU, nr. Llandaff, Glam

FJN (1917) Chalcedony var beekite-ised fossils
in a cherty limestone in a quarry at
Pentrebanau "east of Llandaff"

[Not in OS gazz. 1" map shows "Pentrebane" at ST 120785,
W of Llandaff (2 mls)]

PENTYRCH

glam.

Cox (1937) Trials for iron mentioned.

1" 154

ST 1978

PEN-Y-LAN, Cardiff, Glam.
See also CARDIFF, etc.

FJN (1917) Goethite, thin strings in
Ludlow sandstones

PORHCAWL, Glam.

See also NEWTON NOTTAGE, Tŷ COCH, CORNELLY

Cox (1937) Psilomelane, & some pyrolusite at
a loc. near Porthcawl. See North
Trans Cardiff Nat. Soc. (1916) vol 44. The
sections are no longer seen.

FJN, Trans Cardiff Nat. Soc. 49 (1917). Mn ores at
"Gwar Coch" near Porthcawl (J.J. Watson, Geologist (1859),
p 241; "Iron Ores of Wales" Memoir GS (1861) p 182).
"Gwar Coch" not on present Survey maps, but is on

ca 1 ml NNE of NEWTON NOTTAGE, 9V
Old Series 1" map where "Ty Coch" is marked on
later maps. On MS 6" GS map "Mn mine" is
written against Ty Coch. Ore said to be

psilomelane with some pyrolusite, much
like Upton Pyne (Devonshire) material. Much
calcite, almost complete absence of silica.

Ore in ca 4ft band between 2 beds of
haematite, on Carb. Lim. covered by Trias.

[See ¹TY COCH]

Fletcher & Young J Russ. Soc (1988) 2, 19-23 [89M/3916]
Rosasite, ~~at this~~ aurichalcite & Zn-malachite at
35 m depth in Carb. Lim. in a borehole at LOCKS COMMON
PSN (1997) 30 suggests agate geodes in area [See CG MORE
-BY-SEA 7]

Porthcawl, Glamorgan:-

Cox (loc. cit.): - Psilomelane and some pyrolusite at a loc. near Porthcawl [55/87]; see North, Trans. Cardiff Nat. Soc. 1916, vol. 44. The sections originally described are no longer visible.

Hall (1868):-

Newton Nottage, "Bridgend" [actually near Porthcawl]: Carb. Limestone. Haematite, pyrolusite.

→ RSWB

Llan-gan, Glamorgan.

Spec. Rep. Min. Res. 3 (1916) :- Llan-gan mine,
 $\frac{1}{4}$ ml S of village of Llan-gan [SS/9577, SE
of Bridgend]. Baryte veins in Lias.
In 1877-78, some Pb produced. Not wkd
for many years.

There are several other small baryte
veins in the district betw. Bridgend
and Cowbridge (Spec. Rep. Min. Res. 2;
A.H. Cox, Natural Resources of the South
Wales Industrial Region, 1937 [in Geol.
Surv. library]).

POWELL DYFFRYN PIT, Bargoed, Glam

→ [Probably = siegenite]

Howarth, W.E., Geol. Mag. (1928) 65, 517-8. Linnaeite (Co_3S_4), minute octahedra, on millerite or on dolomite lining septarian crack in clay-ironstone accompanying the Four Feet Seam, with kaolinite; chalcopryite; galena.

North FJ & Howarth WE. Proc Swales Inst Eng. (1928) 360 [Discussion]
Millerite in clay ironstone assoc with Four Feet Seam, with Linnaeite

PWLL-DU HEAD, Gower, Glam (I).

See also CIL IFOR HILL etc.

FJN (1917). Refers to ^(A. Strahan) Swansea Mem 65 (1907), p. 27:
 Greenish wavellite in cracks in the clayey
 rocks assoc. with rottenstone (Upper Lst Shale)
 in a quarry on Pwll-du Head, Gower.

S. Plant (1988) RSN 32 21-3 "The Gower Pen., S. Wales"

Also refers to Strahan (1907). Access to Pwll-Du
 Bay on coast paths or via Bishopston Valley.
 In pebbles on storm beach - in chest (more
 angular than lst pebbles) - white to sea-green
 wavellite. Ian Jones (priv comm) has found

it in "impure shaly l'stones" and also reports variscite in this matrix.

Wav. at top of cliff-top g'y in "rottenstones" in pocket in the l'st.

Calcite blocks from collapsed cave deposits; also pyrite from shale bands also at base of E. cliffs at Pwlldu Head.

A. Strahan (1907) Mem GS. "The geo. of the S. Wales coalfield. Pt. VIII. The country around Swansea" RSN (1909) 35, 15. Chert pebbles cemented w. wavellite (green & white) [P-D BAY]

PWLL-DU HEAD, Gower, Glam. (II)

S. Plant & I. E. Jones (2001) J. Russ. Soc. 7 [2] 79-81

Wavellite hemis to ~5 mm, sea-green in pocket at SS 573 868 on top of cliff above quarry. Also in quarry debris at foot of the bank. One such spec had close to orange-yell rosettes < 1 mm variscite (XRD). Quarry & debris on beach also have green to white wavellite.

A. Dean, T. Cotterell (2003) J. Russ. Soc. 8, 30-32
Calcoxenite relat. common on beach at 576 870; crandallite less common cream powdery, prob weathered wavellite.

BMSN(2005)7012. BMS Coll 2398 Cacox v tiny yellow
pimples w larger white spherules of strengite
e a wavellite spray, from the storm beach
at "Pwldu Bay". Found D. Evans.

1" 152

SS 429 864

RAM GROVE, Gower, Glam.

S. Plant (1988) RSN 32 21-3 "The Gower Pen., S. Wales"
Galena xls → 8mm edge at 429 864
at Ram Grove on S. Gower coast.

Jenkins DG et al (1990) Proc Geol Assoc 101 341-3
"Correl. of Pb isotopes in Lr. Jura rocks of S. Wales"

RHIWBINA, Taff's Well, Glam
cf TAFF'S WELL, TONGWYNLAIS, CASTELL COCH etc.

FJN(1962) 22 Iron ore - ferruginous Carb. Lim.
p 97 Haematite replacing a crinoidal
limestone at Rhiwbina, N of Cardiff.

FJN(1917) Massive baryte in Carb Lim in the
quarry at Rhiwbina

RHIWSAESON, nr. Llantrisant, Glam.

See also LLANTRISANT etc.

Cardiff Mus: Pyromorphite, small green xls.

RHONDDA, Glam.→ [Probably = siegenite, q.v.]Cardiff Mus: Linnaeite, small xls. from Clay-ironstone concretion from Coal-measures.

EJN (1917) Des Cloizeaux, Bull Soc Min (1880) 170 recorded that linnaeite had been found in the Coal Measures of the "Rhondda Valley" by a Mr. Terrill, of Swansea - v small xls, $\frac{1}{4}$ - $\frac{1}{3}$ mm, silvery white, octahedra with cube truncations, assoc. with millerite, chalcocypsite, ankerite in black clay ironstone. No other record, no specimens known in this country [at that time]

RUDRY, Caerphilly, Glam.
See also DRAETHEN; MACHEN (Mon).

Cox (1937) Small occurrences of haematite
in limestone near Rudry. Impersistent
veins of galena with barite, worked
ca 1850, in limestone near Rudry,
Draethen [ST 2287] and Machen, [Mon., ST 28]

FJN (1962) 85 Shallow opencasts & shafts
between Rudry & Machen (Mon) [qv].
p97 ca $\frac{1}{2}$ ml E of Rudry, haematite worked
FJN (1917) Iron ores worked. [haem & limonite assumed]

at Rudy Iron M., but not enough ore to
be economical - as at a mine at Maen-
Lloyd, ca $\frac{1}{3}$ ml NW of Rudy Mine - ore at
base of l'st., mine very wet. Galena
in baryte-calcite gangue in E to NE veins
in Carb Lim between Rudy & Machen [Mon]
Cerussite, minium also recorded, (Howard
Trans. Card. Nat Soc 30 46 (1899))

WJL (1967) Map, p 237 Lead mine

1154 ST 01 73
ST. HILARY,

glam.

A.H. COX (1937) old shafts and levels (Pb)
near New Beaupre [ST 009 733]

FJN (1962) 84. Ca 18 shafts 60-70' deep, and
50-140' apart between St. Hilary & New
Beaupre, connected along their bases
by a level from the hillside.
Explored by S. Wales Caving Club. Galena
assoc. with calcite in narrow vertical
veins

FJN (1917) galena worked from levels, where

Trias breccia on Carb Lim.

1" 154

ST 112 913 (1118 897)

SENGHENNYDD COLLIERY or PIT, Eglwysilan Glam

See also ABERTRIDWR COLL.

Nat Mus Wales gift to DBH Millerite with
dolomite in clay ironstone, from "tip near"
Senghennydd Colliery, Glam".

RSWB + R Lamb 4/84 Old tips below rubbish
dump on hillside at ST 112 913 have
a few nodules with some millerite
~~also~~ with quartz on dolomite/ankerite,
minor galena with the millerite

1" 154

ST 18

68769
70, 71 or 72

SEVEN SISTERS CLIFF, Penarth, nr. Cardiff, Glam.

See also PENARTH

Cardiff Mus: Massive baryte from Rhaetic.

SOUTHERN-DOWN

glam

See also DUNRAVEN

FJN (1917) Chalcedony, var. Beekite-used fossils
in Carb. Lim. ✓ Baryte with galena
on the coast between Sutton & Southerndown

STANDARD COLLIERY, Ynishir, Glam.

Cardiff Mus: Sphalerite xls with quartz & calcite in
vugh in clay-ironstone assoc. with Five Feet Seam.

SULLY ISLAND, Sully, Glam

FJN (1917) Haematite, in veins in the
Carb. Lim. beneath the Trias.

G. Billington (1998) spec. → RSWB (98-138);
coll. 1989: Fluorite, small
colourless cubes ~~on Triassic~~
~~sandstone~~ [T. Levinson: Stn 170669]
Beving (1994) on Carb Lim.

RSN(1999) 35, 16

Fluorite "clear and
yellow" xls $\rightarrow$ 4 mm; ^{a little} ~~rough~~ galena.

SWANSEA, Glam.

FJN (1917) Haematite in calcite veins
in the Carb. Lim. near Swansea.

One such vein near BROADSLADE or
BRACELET BAY worked for Fe ca 1880,
aband. at sea-level. [Neither in OS gazz]

(I)

TAFF'S WELL, Glam.of CASTELL COCH, TONGWYNLAIS, RHIWBINA, GARTHWOOD M
TON MAWR QCardiff Mus: Calcite, large drusy scalenohedra & rhombs
eg. NMW 21.292. GRI illustr. in Bevins & Sharpe (1982) "CWARRE GLAS, Taffs
Well"FJN(1962) 21 Haematite p 93-4, Fig 6. Details -
paragenesis & also limoniteCox (1937) Small haematite bodies in the
Fforest Fawr limestone.FJN(1962) 97 A small haematite orebody in
l'st worked at Fforest Fawr on the E
side of the TaffFJN(1917) Quartz, clear colourless xls., in the iron
ore. Haematite & limonite worked in the area.

Pyrite in coal seams eg that outcropping
on E side of the Taff ca 2ml above Taffs
Well; & in ~~seam~~ the Brass vein of Craig-
yr-Allet [ST 1384]. Dolomite xls 1-3 mm, in
cav's in l'st Taffs Well.

Russ Soc Newsl (1990) 20

22nd April 1989 Taffs Well Quarry, Pentyrch,
Glamorgan. Twentytwo members met in the quarry
car park at 11.00 am. The usual suite of minerals were
in evidence, notably calcite, quartz, hematite and baryte.
The usual areas of mineralisation were not accessible
as on previous visits although the calcite scalenohe-
drons were as excellent as ever.

Both transparent colourless and smoky quartz crystals
were collected and some found in the lower bench of
the quarry were speckled with small crystals of pyrite.
Although good baryte crystals were found, they were
smaller than those seen on our last visit to this locality.
The glorious weather helped to make this a very
enjoyable meeting.

G.B.

Russ. Soc. Newsl. (1991) 21

Sunday 8th April Taffs Well Quarry

As usual, the higher benches of this quarry were the
most productive, massive siliceous blue hematite, small
amounts of specular hematite and small quartz crystals
were collected.

The best find of the morning was a vugh lined with
baryte crystals on which were scattered double-termi-

nated smoky quartz crystals to 7mm in length. Several
excellent specimens were collected.

15 Sept. 1990.

Some small fine groups of blue-grey crystals were
collected, other than calcite there were minor amounts
of smoky quartz, goethite and baryte crystals to 25mm
across.

of?

TAFF'S WELL, glam. (TT)

RSN (1992) 23

Taffs Well Quarry, Glamorgan
27th June 1992

Sixteen members met on another hot summer's day. Recent working at the eastern end of the top level has exposed some large solution cavities lined with large calcite scalenohedra and several fine examples were extracted. The remainder of the quarry was fairly barren although one quartz vein yielded large amethystine quartz crystals to 1cm. Baryte was also abundant, but good crystal samples were rare.

Taffs Well Quarry, Pentyrch, Glamorgan
13 April 1991 RSN (1991) 21

Eighteen members attended this, our first field meeting of the year. In addition to the usual splendid calcite crystals some good quartz crystal groups were collected with crystals to 15mm cross-section. These were on the second bench in the same area as in previous years. Also in this section of the quarry we found small specimens of specular hematite, goethite and some small crystals of smoky quartz on baryte. Quite a good start to the season.

RSN (1992) 23

Wales Weekend: Taffs Well Quarry and
Gilfynned, Abercyn 12th-13th September
1992

A small but rather select band of collectors under the guidance of Gwyn Billington met at Taffs Well Quarry at 11.00am. The day had started rather showery and was to continue so as we headed for the latest pocket of calcites. However we were not there early enough; it had almost been cleared out in the previous few weeks, but with enough left on the back wall to show what a marvellous display it must have been before any collecting took place. A look nearby revealed sufficient calcite of a quality good enough to collect; also a small amount of goethite but little in the way of baryte for which we were also hoping.

At the end of the day all seemed satisfied with their haul of calcite and we departed to spend the evening at Gwyn's for a discussion of the next day's collecting - among other things! This should have been Hamsted Farm Quarry but as we had not heard from the manager we decided instead to go looking for millerite.

24 July 1993 Taffs Well Quarry, Taffs Well, Glamorgan RSN (1994) 24

Fifteen members met at 11am and once again, were given the freedom of the quarry. Calcites, as always, were prevalent, and some reasonable specimens were found on the top bench. The lowest level produced some reasonable baryte with plates to 10mm. Some fine quartz crystals were found in the mid level of the quarry and appeared to be smoky - or was this just inclusions showing through? The quarry is still worthy of a field trip.

This was the last field trip by courtesy of the present manager, Mr Hines, who becomes the new Area Manager, but we look forward to having an equally good relationship with the new manager.

JIW (1999) T.W. Quarry
is at ST 123 827
TON MAWR Q is adjacent,
at 119 827

R. Soc. N. (1994) 25
Taffs Well (Heol Goch) Quarry, Taffs Well, Glamorgan [Grid Ref: ST 124 823] -
3 June 1994

SB, Leader: Jim Goulding

The Manager of Taffs Well Quarry was reluctant at first to permit this visit on a Friday afternoon, because the quarry was working at full capacity. After a little gentle persuasion, knowing that we were experienced people, the visit was allowed. We were told to keep to the three top levels, which was where we wanted to be anyway. Eight members attended this visit on a day of occasional rain and very strong gales.

From the mineral aspect Taffs Well Quarry is, at the moment, a shadow of its former glories, but there were a few nice specimens to be found. Specimens included calcite in various forms, baryte, goethite, quartz and specular hematite.

The best specimens of the afternoon came from a vugh found by Val Craft on the top level. These were pristine calcite crystals covering pink baryte. The author found some samples of specular hematite on baryte and quartz, some of which was doubly terminated.

The quarry was very muddy where vehicles had been active, but we were able to take our cars up to the top three levels, where it was dry. The

TAFF'S WELL, Glam. (III)

RSN('03) 42 27 Visit.

As before

RSN(104) 45 40 Visit.

R. Soc. N (1994) 25

Reports are by field l

Taffs Well (Heol Goch) Quarry, Taffs
Well, Glamorgan [Grid Ref: ST 124 823] -
23 April 1994

WWB, Leaders: Gwyn Billington &
Steve Plant

Our party of eleven members gathered in dry weather, enjoying occasional sunny spells. This locality, a long standing favourite with collectors for many years, has not yielded much of interest for the past two years or so. Current operations are concentrated on the lower levels and very few calcite lined cavities are exposed. A few strings of baryte were noted. Minerals collected included calcite, baryte, goethite and smoky quartz.

Until operations resume in the upper levels of the quarry little of mineralogical interest is likely to be exposed.

RSN(2000) 37, 18. Calcite
ba, goeth. Spots of
cupy e malachite

SN 1300

TENBY Glam.

FJN (1917) Pyrite in coal

1" 154

SS 966 767

TEWGOED, Llangan, Glam.

See LLANGAN

1" 154

ST

1584

THORN HILLglam

See also CAERPHILLY

FJN (1917) Dolomite, well formed 1-3mm
rhombohedral xls in cavs in the lst at
Thornhill, S of Caerphilly.

1" 153

SN 62 13

TIRYDAIL, Glam

FJN(1917) Ankerite xls ("ferriferous dolomite")
in Lr Coal Meas. S'tone at Park Coll'y., Tiryda

TONGWYNLAIS, Taff's Well glam
of CASTELL COCH, TAFF'S WELL, RHIWBINA,
BLAENGWYNLAIS Q'y.

Cox (1937) Mentions trials for iron near
Tongwynlais e on the side of Rhiwbina Hill

FJN (1917) Chalcedony, agate, in Carb. Lim
at COED CEFN GARW QUARRY, nr. Tongwynlais,
according to Prof. Sibly [no ref.]

1" 154

ST 119 827

TON MAWR QUARRY, Taff's Well, Glam.
See also TAFF'S WELL.

J. Wilson & Mark Colledge, Priv Comm, 1999.

Adjacent to TAFF'S WELL Q.; working
limestone Q.; occas. large vugs w.
calcite xls - large scalenohedra also
small rhombohedra, some red as Fe-
stained or covering red Fe-stained
matrix. goethite, rich velvety
coatings of dark brown radiating
needles, assoc. w. calcite rhombohedra.

RSN(1999)34 9-10, 13. ~ 2 yrs old. Ca ~ 30 cm; goeth;
(has ~ 2 more yrs)

some smoky
small quartz xls $\rightarrow$ 4 mm; some massive haematite.
Baryte fibr. masses or blades on Ca.

RSN(2000) 36, 25 Visit. [ST 123 823]. Interest'g
xls of calcite & baryte, smaller than before;
excellent goethite; qtz xls. Some goethite.
ψ-after pyrite.
Remind of imminent closure.

RSN(2000) 37, 19-20. Excel. calcite some w
golden included goeth, Black goeth - doub. term
smoky qtz xls w "specular" goethite.

TRECASTLE MINE, Llanharry, Glam

See also LLANHARRY, etc.

Cox (1937) Iron mine with haematite,
red & yellow ochres, & manganese oxides.

FJN (1962) 95. Opened ca 1878. Active until
1891. All the ore from one large pocket.

FJN (1917) Oxides of Mn with iron ores at TRECASTLE.

S. Vivian (1884) Proc. S. Wales Inst. Eng 14 164-175

S. Vivian (1887) Trans. Cardiff Nat. Soc. 19 48-53.

TREHARRIS, Glam.RAH spec: Millerite→ [Probably = Siegenite, q.v.]

Howarth WE, Geol Mag (1928) 65 517-8. Linnaeite (Co_3S_4), minute octahedra, on ~~matrix~~ dolomite or on millerite, in clay-ironstone, accompanying Seven Feet Seam; also kaolin, baryte, chalcopryite, ~~carbonite~~.

North FJ & Howarth WE. Proc SWales Inst Eng (1928) 325:

Millerite in septarian cracks in clay ironstone assoc with the Seven Feet Seam, with dolomite, kaolinite, linnaeite, chalcopryite, barytes (often large tabular xls.) Specs in possession of Ocean Coal Co. one the biggest single mass of radiating needles yet found in S. Wales - $1\frac{3}{4}" \times \frac{3}{4}"$

Nor Mus Wales. Epsomite

Deep Navigation Pit

RSWB et al (2/64) IV, 75-78. Millerite, some altered
to nickel sulphate(s); dolomite; linnaeite;
blende; chalcopryite; pyrite; galena;
?anglesite; barite; Koolinite xls; ?jarosite;
good quartz xls; ankerite
(4/64) IV, 88. Its above. Some millerite coll.
underground, from just above the SIX FEET
SEAM (according to a miner).

Acc. to Emylyn Evans, some Ni sulphate is
retgersite. 64-405, 56 have green needles

∴ probably retgersite or Jamborite

64-134 has good linnaeite & one thin hex plate ?pyrrhotite

1" 154

ST 0 7

TUMBLE-DOWN HILL, nr St Nicholas, glam

051" St Nicholas 090 742

Bevins & Sharpe (1982) NMW 31.178.6R11
galena, in Carb. Lim.

1" 153 55 827 794
Ty COCH, ^{Newton Nottage} Porthcawl, ^Λ Glam (I)

See also PORTHCAWL

J.J. Watson (1859) geologist, 2 241-256. Interbedded
"haematite" & manganese ore, at GWAER
COCH. Psilomelane, pyrolusite, quartz, carbonates

S. Vivian (1884) Proc. S. Wales Inst. Eng. 14 164-175
Notes small size of dumps, & lack of information

F.T. Howard (1893-4) Trans. Cardiff Nat. Soc.
26 47-54. Mine seems to have disappeared.

F.J. North (1917) Trans. Cardiff Nat. Soc. 49.

[See PORTHCAWL for details]. Psilomelane,

pyrolusite, haematite, calcite

A.J. Criddle & R.F. Symes. MM (1977) 41 85-90.

"Mineralis'n at Tŷ Coch, Glamorgan (Mid Glamorgan),
Wales: the second occurrence of pyrobelonite".

From dumps & fields at farm, also in
walls, at Tŷ Coch, Mr. South Cornelly.

5 types of sample examined.

- ① Dark grey Mn ore with lenticles of calcite & baryte
with fibrous white & grey palygorskite on
shear surfaces; are of eu- to sub-hedral [v. infra]
braunite & hausmannite w. interstitial
& vug filling calcite, manganocalcite, ferroan
calcite, dolomite & baryte. Minor discrete
eu- to an-hedral grains & intergrowths of

T³ COCH, Porthcawl, Glam. (II)

pyrokelonite & vanadinite. Pyrokelonite also as < 0.5 mm veinlets for up to 3 cm; black to deep red, adam-sub-met. lustre, orange streak. The Vanadinite is pale lemon-yellow.

② Interlayered vuggy romancheite & goethite w. white fibr. calcite & euhed. xl. clusters hausmannite

③ Mass. wad & psilomelane replacing 1st & filling cavs., w. calcite. grey vanadinite w. greasy lustre fills cavs

→ 5 mm in the psilomelane.

④ Mass. → botry → velvety goethite w. minor
haematite bands; overgrown by c'lers
quartz x13 → 1 cm.

⑤ Brecciated ores, of goethite, haem,
psilomelane, qtz, l'st. Some have small
bright yellow p'dry encrust's vanadinite.

Addendum. The palygorskite is "orthopaly."
("normal" is monoclinic). - X-ray.

RSIOB & R Lamb 4/84. Wulfenite (IR) on black
Mar ore, dump not far from farm entrance at
827 794

Tŷ COCH, Porthcawl, Glam. (III)

RSWB & RPH Lamb, Mineral. Mag (1986) 50, 180-1
wulfenite; calcite.

TY-1SAF, Llanharry, glam

See also LLANHARRY

FJN(1962) 21 Old workings: haematite.

1" 154

(ST) ST 01 95

TYLORSTOWN, Rhondda Fach, Glamorgans

H. Corke, Priv Comm (7/74). Used to find good
millerite on dumps above Tylorstown,
both on main dumps at 018 955 and
on smaller dumps at 012 963.

1" 154 ST 023 947
WATTSTOWN PIT, Wattstown, Glam

RGWB et al (2/64) IV 74-75 → [Prob. = siegenite, q.v.]
?? linnaeite;
dolomite; blende (almost clear xls); galena;
chalcopyrite; pyrite; hatchettine, small
orange globs, brilliantly fluorescent in
UV(LW); good quartz xls. ankerite

WENVOEGlam.

See also CWRTYR-ALA

FJN (1962) 22 Earthy compact iron ore, worked
1859-64, & ancient(?). p97 At Cwrtyrall

COX (1937) Small patch of haematite, worked
for a short time.

WJL (1967) Map p 237 Lead mine - "Wenvoe"

WYNDHAM COLL'Y, Ogmore Vale, glam

See OGMORE VALE.

YNYS CEDWYN glam.

See also ONLLWYN

FJN (1917). Pyrite, in the Big Kein and the
Brass Kein

YNYSHIR, Rhondda Fach, Glam.

See STANDARD COLL

Nat Mus Wales, Cardiff: Sphalerite xls., with
quartz & calcite in clay-ironstone, assoc.
with Five Feet Seam in STANDARD COLL.