

Wh. Abraham, Crowan, Cornw.

See Wh. ~~Wh~~ Crenver

1" 189

SW 55 28

ACTON CASTLE, Perranuthnoe, Cornwall. A 78

TMH (1868), 48:

Actinolite

WHEAL AGAR, Camborne, Cornwall

C 14

RSWB's $\frac{1}{2}$ " map. 9K See also E. POOL MINEBM: Stannite"Fluorspar" 115 (1952) Mins. similar to S. Crofty, ~~en~~ (qv)
"E. Pool & Agar"JC (1871), 51: (Cu, wkg.) Chalcopyrite.Rudler (1905) 30. Wolframite - AGAR UNITED MINES

Dewey (1923) 24 Included in E. POOL & AGAR. [See E. Pool]

1" 190 750 410
ALE and CAKES MINE, Gwennap, Cornwall R 15
~~E part of St Day United - Henwood See also ST. DAY UNITED M's;~~
1 ml NE of Gwennap.] CONSOLIDATED MINES; E. ALE & CAKES M.

BM: Greyish barite;

JC (1871) 56 (Cu) Chalcopyrite

Rudler (1905), 95. Ale & Cakes mine, afterwards one of the "UNITED MINES" [ST DAY UTD. MS] & subsequently absorbed in the CONSOLIDATED MINES. Here, barite, sheaf groups of greenish-grey xls, which darken on long exposure to light, occurred in a Cu lode, at 170 fms below surface, acc'd to Mr. Garby.

W. Phillips (1823). Chalcopyrite

Duvey (1923) 35-6. Part of (ST DAY) UNITED MINES.

On GREAT LODGE, 27 deg. N of E, average
6 ft wide. Richest Cu in upper levels,
sometimes down to 212 fms below adit.
Baryte assoc. with the Cu ores in the
deeper workings.

Also Gt SOUTH L., GELLARD'S N & S L's., ~~the~~
MUNDIC LODGE.

EAST ALE AND CAKES MINE, Gwennap, Cornwall.

See also St. DAY UT'D M's., ALE & CAKES M.

Dewey (1923) 35. Part of (St. DAY) UNITED M's. On
GREAT LODGE.

WHEAL ALFRED, Hayle, ^{2 1/2" SW 53} Cornwall ⁵⁷⁸³⁷¹ (I) H11

Also included in ALFRED CONSOLS MINE 585370 H12 (qv).

Spec. Min. Res. Rep. 21. Copper mine, minor Pb/Zn.

Robson RGSC, (1949). Bieberite, $\text{CoSO}_4 \cdot 7\text{H}_2\text{O}$, previously mistaken for erythrite.

Museums: Pyromorphite on qtz. (eg SPS 153)

BM: Yellow green mimetite ~~☉~~; mixite Cu, Bi arsenate , pale blue green silky needles, with mimetite & qtz.

JC (1871), 50. Wh. ALFRED, Phillack.

Bayldonite? calcite;

Dietrich et al Bull Soc Fr. Met Cr (1969) 92 420-434

Agardite; mixite

cerussite; chalcedony; chalcocite; chalcopyrite
"erubescite" = ^{Bornite} cerargyrite; malachite;
mimetite; pyromorphite ("the finest ever
found in Cornwall"); rock xl, silver.

~~BMC~~ ~~Mimetite~~ W. Phillips (1823): Acicular cerussite; native Hg in malachite
Spec. in St Pauls Sch Mus (SPS 153) Mimetite (checked by IR)
light yellow-green transparent hex. prisms on
honeycombed quartz

Rudler (1905) 56. Pyromorphite & mimetite

Dewey (1923) Cu ore 1815-32, 1846-64

MM 13 327 Mimetite

WHEAL ALFRED, Hayle, Cornwall (II)

Russ. Soc. AGM., 4/91

WHEAL ALFRED

Wheal Alfred is part of the larger Alfred Consols sett which is situated about 1.5 miles northeast of St. Erth. The mine worked six lodes: Main, Middle, South, North, Branch and Alfred which are hosted in killas and associated with greenstone and elvan dykes. The sett including Wheal Alfred restarted in 1846 just before the Great Wheal Alfred Mines started to work again. Within a few months of working the Wheal Alfred Lode was 10 feet wide. The mine was eventually sunk to a depth of 190 fathoms and closed in 1862 due to flooding owing to the closure of the nearby Great Wheal Alfred workings. The production records before 1801 are uncertain but Collins records that the sett's copper production was second only to Dolcoath. Considerable quantities of galena and cerussite were raised before 1814, a small tonnage of both sphalerite and cassiterite are recorded by Dines (1956).

AGARDITE

ARSENOPYRITE

BORNITE

CALCITE

CERUSSITE

CHALCEDONY

CHALCOCITE

CHALCOPYRITE

CHLORARGYRITE

CONNELLITE

GALENA

MALACHITE

MIMETITE

PYRITE

PYROMORPHITE

QUARTZ

SILVER (NATIVE)

SPHALERITE

CMRM(1995) graphite;

plumbogummite (wh.

ALFRED, Guinear);

pyrargyrite (wh. A. Phillack)

quartz vars "float stone"

& transparent;

Whe. Alfred, Hayle, Cornwall (III)

R. Soc. N. 23 (1992)

Wheal Alfred, Phillack, Cornwall
19th July 1992

The rain stopped at about five minutes to ten and after a brief encounter with Mr. Runnalls senior

followed by Mr. Runnalls junior, the party of eight headed off towards the small and overgrown SSSI. Small specimens of weathered and hence rather poor quality pyromorphite in colours ranging from dark to pale green through to lemon yellow and brown slowly came to light. Michael Spencer was fortunate enough to find a rather excellent specimen of dark green pyromorphite with curved barrel-shaped crystals to approx. 1cm. Shaft sinking and cross-cutting in the sandy dump material continued well into the afternoon under the now blazing sun. Further small samples of pyromorphite were recovered and some of the more micro specimens were quite well crystallised.

A few small pale green sprays of the rare-earth bearing mineral agardite were found later in the day but the specimens were not of such good

quality as those collected during last year's National AGM fieldtrip.

The first British occurrence of agardite was at Wheal Alfred as reported in Peter Embrey's *Fourth Supplementary List of British Minerals* (1977). Additional information gives the species as agardite-(Nd). Analysis using EDX of a specimen collected from Wheal Alfred last year showed the dominant rare earth to be cerium but also the presence of lanthanum, neodymium and calcium.

Fleischer & Mandarino *Glossary of mineral species* (1991) gives two species of agardite:

Agardite-(La)	$(\text{La}, \text{Ca})\text{Cu}_6(\text{AsO}_4)_3(\text{OH})_6 \cdot 3\text{H}_2\text{O}$
Agardite-(Y)	$(\text{Y}, \text{Ca})\text{Cu}_6(\text{AsO}_4)_3(\text{OH})_6 \cdot 3\text{H}_2\text{O}$

The same species, with some variation in formulae are given in Nickel and Nichols (1991) *Mineral reference manual*, and Hölzel (1989) *Systematics of minerals*, but the Nickel and Nichols *Mineral database* (1992) also includes agardite-(Ce) $(\text{CeCu}_6(\text{AsO}_4)_3(\text{OH})_6 \cdot 3\text{H}_2\text{O})$ noting that it has not yet been submitted to the International Mineralogical Association's Commission on New Minerals and Mineral Names for approval. It would

appear that the Wheal Alfred material is agardite-(Ce) (taking on the suffix of its dominant rare earth element, according to international convention), and further quantitative research should give sufficient data for submission to the I.M.A.

Other minerals found in modest amounts included goethite forming both velvety brown crusts and black botryoidal masses, and some small pale-green cubes of pharmacosiderite in vuggy quartz. One or two of the party members tried their luck

on the more extensive dumps of Wheal Alfred Consols but as far as I know, nothing of note was found.

Jeremy Hooper (additional notes by Monica Price)

Wh. Alfred: By the time we arrived at this site the rain was torrential. A search on the dump - a 'Site of Special Scientific Interest' (?) yielded lumps of sugary quartz in which the occasional lemon/green pyromorphite was found. Small dumps nearby showed signs of secondary copper mineralisation, essentially amorphous blue/green coatings, however, two small pieces of dendritic native copper were found. A rather disappointing site.

Steve Plant

Wheal Alfred Sunday 7th April

RSN
(1991) 22

Following the horrendous conditions of the previous day, when only a few 'die-hards' stuck the afternoon out, the weather proved to be quite amenable on the Sunday. The only dark cloud on the horizon was perpetually positioned over the leader, Chris Scheduling, who maintained that he was simply over-tired. The suggestion that he was 'out of sorts' due to the fact that he was boozing until 4. 30 am was dismissed with a curt rebuff.

Major collecting success was limited to the afternoon session though Gary Crutchley obtained some quite acceptable pyromorphite specimens in the morning. The leader was suffering an uncharacteristic lack of attention by remaining in his car in the prone position on returning from the alternative location at Trevascus. It took the mention of a find of small (< 1 mm), blue-green needles in radiating sprays to galvanise him into action and bring him scuttling across the dump. The specimen turned out to be none other than the much discussed, but up until then, elusive species (-Ce) of AGARDITE. Flagging interest was stimulated and the next hour saw another dozen specimens brought to light. It took some breaks in the cloud to spot the

Wh. ALFRED, Hayle, Cornwall (IV)

agardite on hitherto discarded pieces of matrix. This provides a salutary lesson in reducing one's expectations to a sensible level when one will be rewarded with finds - too much material is ignored by setting unrealistically high standards of expectation.

Additionally Vic and Maureen Rae were rewarded for their diligence by finding two hand-sized specimens with well crystalline ($< 4\text{-}5\text{ mm}$) pyromorphite.

We are grateful to the Runnalls family and Tehidy Minerals Ltd for permission to collect and thanks are due to those who donated towards the gift of a print of Crown's Mine for the landowner. Members will be delighted to learn that the application for another official Russell Society trip to Wheal Alfred will be regarded favourably. Please ensure that none of your actions endanger this encouraging relationship and don't forget to return next year's field trip application form!

Chris Scheduling

[Editor's Note: some of this agardite was later subjected to electron microprobe analysis which showed the predominant rare earth to be cerium, with probably a trace of lanthanum.]

ALFRED CONSOLS MINE, Hayle, Cornwall ^{2 1/2" SW53 585370}

H
12

Spec. Min. Res. Rep. 21. Sn/Cu, minor Pb/Zn mine.

Dines. Also known as GREAT WHEAL ALFRED and
(1956) 146. includes WHEAL ALFRED. H 11 Alfred Consols:
Chalcopryrite; chalcocite; bornite; tetrahedrite;
melanconite; cuprite; galena; cerussite;
pyromorphite; mimetite; blende; cerargyrite;
chalcedony; fluorite, cassiterite.

Dewey (1923) Cu ore 1852-63

Rdwb (8/66) 57. Big dumps on W side of valley
near 585 369 u/s. Many bees!

Gr. Wh. ALFRED, Hayle, Cornwall.

See ALFRED CONSOLS MINE

WEST WHEAL ALFRED, St. Erth, ^{2½" SW53} Cornwall 552359

H 8

Cu mine.

WEST ALFRED CONSOLS, Hayle, Cornwall
formerly WHEAL ANN.

1 1/4 ml NE of St. Eith.

Dines: Arsenopyrite; siderite; cerussite; calamine;
p 142 silver; argentite; cerargyrite; Cu ores. Formerly
Wh ANN.

JC (1871), 50: Wh. ANN? Phillack? Argentite; cerargyrite

CMRM (1995) Ni-skutterudite ("chloanthite") (Wh.
ANN, Phillack);

Wh. Alice, Lelant, Cornwall

See W. Wh. Towan

1" 189

SW 695 425

Wh. ALICE, Redruth, Cornwall

AKHJ (1962) 3 28

Wh. ALICE = REDRUTH CONSOLS,

later = EAST TOLGUS M.

1"190

SW 917 537

Wh. ALICE, St. Stephen, Cornwall

Bull GSGS 25 33-40 (1966). Traces radium
in v. weathered pitchblende assoc. w.
torbernite & m-torbernite-I

Atkin et al MM 47 393-6 (1983) Tristramite,
new U min. of rhabdophane group
— "Wh Alice", Cornwall

1" 186

SX 22 81

ALTERNUN, Cornwall.

(1)

K. 97

See also Wh. BRAY (K 133); TREBURLAND M;

JC (1871), 63: Stream tin; gold.

Rayners Cat (1960) Pitchblende + autunite + pyrite.

Torbernite, zippelite, tourmaline, wolframite

? Wh BRAY

Altarnun, Cornwall. (H)

MM. 1959, 32, 244 (footnote) - pyrosmalite, Treburland.
(9.v.)

Rayner's Cat. (1960).

"Treburland Mine, Alterton": magnetite + rhodonite.

"Altarnon": torbernite, zippeite, uraninite,
tourmaline, milky quartz, wolframite

"Alterton": autunite, torbernite.

"Wk. Bray Mine, Altarnon" - uraninite + torbernite.

SX 194 674 K 84

AMBROSE LAKE MINE, Liskeard, Cornwall.

JC (1871), 63: (Sn, wkg.) Cassiterite.

Wh. Ancient, Lelant, Cwm.

See Wh. Brothers

SW 761 419 AKHJ
Burt

Wh. ANDREW, Gwennap, Cornwall.

"M.J. Minerals" Cat (12/93) Ceruleite, "Wh. ANDREW,
Gwennap," ex S. Craft Coll.

AKHJ (1961-70) 761 419

Burt et al (1987) 761 419

WHEAL ANGARRACK, Gwinear, Cornwall
MELLANOWETH MINE, or WHEAL MAGGOT

Two old shafts 350 yds SE of where railway crosses stream.

Copper ores. Anglesite & galena said to have occurred in gozzan.

Rutley, 15th Ed., p 184, anglesite

Penzance Mus: anglesite.

JC(1871) 49. MELLANOWETH. Anglesite.

W. Phillips (1823) Anglesite, sparingly in a
 Cu vein of "VELENOWETH MINE, nr. St. Ives".

AKHJ (1963) 5, 38. Branch of rich Cu ore struck, in valley below E end of viaduct, on its S side, while digging a wall. As well as copper, abundance of anglesite in well-formed xls.

Dines (1956) 1 146. On Orchard Lode, E 32° N, crossing valley 50 yds S of viaduct, also Mellanoweth Lode, E 20° N, crossing valley 50 yds N of railway, & another lode 40 yds further N. Two old sh's 350 yds SE of where railway crosses stream. Copper ores: anglesite & galena said to have been in the gozzan of one lode.

RSWB (8/66) 5 56-7. Small shale dump at 588 382 beside & N of the railway line - quartz.

Wh. ANN, Hayle, Cornwall

See WEST ALFRED CONSOLS

1" 189 68.30, SW
WHEAL ANN, (nr Helston), Wendron, Cornwall

M 24

See also TRUMPET CONSOLS

JC(1871), 55: (Sn). Argentite; cerussite; cassiterite;
silver; felspar; limonite; mica.

DBB "W. Corn" (1963) 23. Engine house, close to
B 3297 road. Part of TRUMPET CONSOLS

Wh. ANNA, Penzance, Cornwall

A 52

See NEW CHIVERTON MINE (A51)

ANNA MINE, St. Hilary, Cornwall

See also GUSKAS & ANNA MINE

1" 190

~ SW 758 282

Wh. ANNA MARIA, Maonan Smith, Cornwall

On E side of estuary.

AKHJ??

Bournonite

Rev. V. Holyer, priv. comm (9/89) Siderite,
tetrahedrite, chalcocopyrite

M & HM (2013) Spec's → R500B for ID. ^(Massive) Bournon
Phosgenite; mimetite, small patch
of small pale yellowish needles.
tiny clear class square/pyram x1:1R = baryte

1" 185

SW 8 6 2

Wh. ANSON, Mawgan, Cornwall.

L 37

JC (1871), 54: (Cu). Chalcopryite; pyrite

Mawgan SW 8 6

1"189

SW ~~SW~~ 50 39

Wh. APPLIN, St. Ives, Cornwall

See also BAHAVELLA M.

AKHTJ (1961) $\perp$ 23. S of St Ives CONSOLS; worked
the lode to 20 fms., also worked in
BAHAVELLA M, & outcropped at PEDN OLVA cliff

i" 185

SX ② 7 or 8?

Wh. ARCHIE, St. Teath, Cornwall E 17

Je (1871), 62: (Cu, Pb, wkg.) Chalcopyrite; galena.

SX 433 700

Wh. ARTHUR, Calstock, Cornwall. K 127

See also DRAKEWALLS M;

JC (1841), 64: (Cu, Sn, wkg.) Bismuthinite;
cassiterite; chalcopyrite.

OS 6 in map: Sn, Cu.

G Plus, donation (1967) BW Hester. Arsenopyrite

Wh. ARTHUR, Perranuthnoe, Cornwall.

See E. Wh. NEPTUNE

1" 189
WHEAL ARTHUR, Phillack, ^{2 1/2}" SW 53 ?
Cornwall

H 14

Spec. Min. Res. Rep. 21. Minor Pb/Zn mine.

NOT in Dines GR ARHJ. or Burt et al
? = ALFRED?

Wh. ARTHUR, St. Agnes, Cornwall

See Wh. BURROW & B

ASHTON, Cornwall. (?)

? ALTARNUN?

Rayner's Cat. (1960)

Torkernite, autunite, pitchblende
(uraninite)

1" 186

SX 305 862

ATWAY Mn MINE, St Stephens by Launceston
Cornwall.

AKHT (1969) xv 61 Sh. & 2 pits in "Mine Field"

Atway Mn Mine discussed by a correspondent
in Mining Journal (1877).

CMRM (1995) Rhodonite

1" 189

SW 513 404

Wh. AYR, St Ives, Cornwall.

AKHJ (1961) 121 Due N of Wh Trenwith. Deep adit
from Porthmeor Beach. 2 ft lode, with
copper & tin [ores].

Part of sett named EAST ST IVES
CONSOLS in 1849.

Called Wh. GEORGE in 1838

WHEAL

BADDON, Truro, Cornwall

1" 190 77⁸ 42,

R 24

BADGER SHAFT, St. Just, Cornwall ^{2 1/2" SW 33 356313}

BELLACE MINE of 1/2" RSWB? n1 [= BELLAN M?]

STW ~~15~~ 15

Tm mine. on Carn gloose.

Visited RSWB & GR. Loc 104. Amethyst plentiful

Wh. Bag, Lelant, Cornw

See Wh Merth

1" 189

SW ~~189~~ 51 39

BAHAVELLA MINE, St Ives, Cornwall

See also Wh. APPLIN; PEDN OLVA MINE

AKHJ (1961) 1-23-4. S of Wh. TRENWITH, worked
11th lode to 60 fms, B. shaft by farmhouse
of that name. Lode outcropped at PEDN
OLVA

WHEAL BAL, St Just, Cornwall

SHJ 22

Wheal Bal Hill 1" 189 38_x 33_y

Baldne (Baldew) M, St Agnes, Corn

See Wh Kitty

1" 190

THE BALK,

Lizard
grade, A Cornwall.

SW 715 128

L 14

JC (1871), 54: Orthoclase & mica in granite veins.

grade SW 7114
The Balk 715128

BALL-DUE MINE

2

cf BALDEW(BALDUE M) - see W. KITTY Stragles

Henwood: Blende;

(Also cf BALDHU SW 77 42)

2½" SW 33 389310
BALLESWIDDEN MINE, St. Just, Cornwall

STJ 19

Shown on G.R.'s ½" Cornwall map.

Henwood: Bismuthinite

JC(1871) 47 (Sn, wkg.) Bismuthinite; bismuth; fine xls mica
and orthoclase in granite; "lithomarge"
~~lithomarge~~.

Rudler (1905), 14. Cassiterite pseudo. after feldspar

DBB (1963) 16. Started 1837. Aband. 1873 at
just > 180 fms.

1" 189

SW 36 30

BALLOWALL MINE, St Just, Cornwall

See also BOSORNE & BALLOWALL UTD, etc.

1" 190

SW 70 34

BALMYNHEAR MINE, Wendron, Cornwall. M. 66
67 31

JC (1871), 55: (Sn, Wkg.) Cassiterite.

Balnoon M., St. Agnes, Corn.

See Polberro M.

BALNOON MINE, St. Ives, Cornwall

H 41

~~See also VORVAS M.~~

Henwood.

JC (1871), 49:

Cassiterite; felspar; mica; schist.AKHT (1961) 34 Adjacent to VORVAS DOWNS M. &
sometimes worked with it. Old.

Wh. Bankla, St Agnes, Conn

See Wh's Budnick

Wh. BARNARD, Callington, Cornw.

= Wh. NEWTON, qv.

SW 684 419

BARN COOSE LEVEL, Redruth, Cornwall

See also CARN BREA MINES

G. Hudson Priv Comm 1968 Level from near
Tolskithy goes a long way, branches. Goes
to area of Carn Brea mines, where
coll. excellent connellite with
langite, brochantite

1" 186

SX 235 867

Wh. BARON, Laneast, Cornwall.

AKHJ (1969) XV, 63-4. On Badgall Fm.
Working 1853-5. Shaft on lode
of quartz and mundic [pyrite],
spotted with rich silver-lead ore.
= mine shown on OS 6" map as
ST. GEORGES.

1" 186

SX ? 260 745

BARRAH TOR QUARRY, Upton Cross, Cornwall

Quarries (1963-4). Working, granite. "BARRAH TOR"

OS 2½" map shows "Bearah Tor" with "Old Quarry,"
at 260 745

BARRETT'S ZAWN, St. Teath, Cornwall

See Wh. SAMPSON

1" 190

SW 7239 ~~7239~~ 42

BARRIER MINE, Gwennap, Cornwall.

R 58

JC (1871), 56: Stannite

~~2 = BURRA BURRA M 747 466~~
Burra Burra 747 466

= TRESAVERAN MINE,

1st 190

SW 7 5

Wh. BARROW, St. Agnes, Cornwall

A 30

JC (1871), 57: (Sn) Scheelite; blende;
cassiterite; pyrrhotite.

TMH (1868) Blende ✓

WHEAL BASSET (I) Redruth. 1" (189) 690397 (common)
W. 680395 (R42)
N. 67x40y (R39)
E 690405 (R41)
See also: S. Basset (R 40) See also BULLER M

Min. Mag., 30, 346, 352.

Bassetite; uranospathite.

TOLCARNE
CONDURROW
GRENVILLE

Frondel, Amer. Min., 35, 252, (1950). Liebigite, $\text{Ca}_2\text{U}(\text{CO}_3)_4 \cdot 10\text{H}_2\text{O}$.

Rutley, 15th Ed., p. 158, pitchblende; p. 160, autunite at
SOUTH BASSET; p. 179, cassiterite; p. 220, argentite

BM: Uranospathite, tufts of yellow xls, on black gozzan,
from WEST Wh. BASSET; torbernite, from
S. Wh. BASSET, in limonite; chalcocite, from
W. Wh. BASSET; malachite, with cuprite, from
N. BASSET

Rudler (1905) 47. Langite, according to Mr. Collins

JC (1871), 51: (Cu, wkg.) Argentite; autunite;
chalcocite; chalcopyrite; copper;
cuprite; galena; malachite; silver.

GeL (1858). Native silver, filiform, formerly.
Argentite, formerly; cuprite, fine xls,
recently. Chalcopyrite var. blistered
copper, recently.

MM 30 346 & 352. Bassetite & uranospathite.

Bassetite in two types:

- (a) Tabular pseudo-tetrag, yellow, brownish-yellow, or
more commonly bronze-yellow xls. on black porous matrix.
Either single xls or chessboard aggreg. of laths.
- (b) Distinct monoclinic olive-green single xls assoc. with type (a)
in a decomp pyritic ore (2 specimens).

Cont'd (II).

Wh. BASSET, Redruth, Cornwall (II)

Ruedler (1905) 82. Acc. to the late Mr. Garby, the specimens of "uranite", "when first discov'd by the miners in Huel Buller & Huel Basset were very phosphorescent - so much so that after the lights were extinguished many of the crystals might be discovered in situ" (Trans RGS (1865), 86).

MM 17 234 Bassetite

Dewey (1923) 27. BASSET MINES Ltd includes Wh. BASSET, W. Wh. BASSET, & S. Wh. FRANCES. | Pto

The gt Goss course shifts all lodes W of Wh. FRANCES to the NW. At Wh. BASSET many lodes, eg G.T. FLAT LODE, GEISLER'S, PADDONS, NORTH, THEAKER'S, VIVIAN'S, WILLIAM'S. Cu ores. produced 1815-27, 1832-36, 1851-1905.

W. Phillips (1823). Cubic silver glance.

RSWB, (8/65) IV, 219-210 Torbernite. cuprite. chloite.
chalcopryite; quartz; chrysocolla; bassetite

RSWB, (8/66) V 52-53 Also like thenite (IR); malachite;
chalcocite; cassiterite; azurite;

c Rogers (1968) Malachite small blocky crusts; torbernite
occasionally; cuprite xls; chalcocite; copper;
fluorite.

Wh. BASSET, Redruth, Cornwall (III)

MGH Merry (spec's $\rightarrow$ RSWB for ident; 2-4/95)
Dumps being dug. Apatite (slightly
carbonatian, weak δ -H stretch) (FTIR); greyish
platy in clusters; "radioactive" acc. to MGHM
(95-14); Cyanotrichite (FTIR) sky-blue
radiating micro-clusters & woolly
masses (eg 95-16) [cf S.W. BASSET]
5/95 Olivine xls with $\sim 5\% \text{PO}_4$ (FTIR)

RSWB (8/95) FTIR: brochantite

CMRM (1995) Baryte (incl. Ra-Sr-); "blister" chalcopyrite;
saléeite; uranospinite (?) - "visually ident" specimens at

checked by XRD were metatorbernite); vochtenite;

BMS Newsl. (1997) 46, 7: Bismutite (R. Bell)^{p.9:}; Langite,
wroewolfeite; brochantite (J. Wooldridge).

R Selley BMSN ('07) 74, 5-6. GRACE'S sh capped
qtz/chlorite; apatite, anatase, aragonite,
azurite, bismuthinite, brochantite,
calcite, cassit (incl. "sparable"), chalcocite,
cupyr, ch'phyll, connell, copper, cuprite,
cyanotrichite, haem, likeithen, mal,
monazite xls, posnjak, ps-mal, pyrite,
torbernite, ?bismoclite, "a couple of unknowns".

1" 190

SW 702 467

A 31

Wh. BASSET, St. Agnes, Cornwall.

[? = OLD Wh. BASSET ~~9v~~ 702 467]

JC (1871) 57: (Cu)

ETMH (1868)

Argentite, copper, cuprite,
malachite, pitchblende, torbernite.

NOT mentioned in AKHJ (1962) 2]

? confusion with
The Redoubt
Wh Basset

BASSET MINE, Wendron, Cornwall.

M 68

See BASSET & GRILLS MINE (M 67)

1" 189 SW 690 329

BASSET & GRYLLS MINE, Wendron, Cornwall M 67

✓C (1871), 55 (Sn, wkg).

DBB "W. Corn" (1963) 23. Worked from ca 1750 as
PORKELLIS MINE, name changed in 1850's to
BASSET & GRYLLS - (Ländroners) - probably after the
big fall which killed 7 men. Closed 1880.
Restarted 1907 for a few years. Reopened
intermittently in 1920's & 1930's. Part of
the workings S of Lower Porkellis were
also known as PORKELLIS UTD or
PORKELLIS MOOR M., continuations of the
original rich alluvial workings here

55 near 690 325

1" (189) 690 405

EAST Wh. BASSET, Illogan, Cornwall. R 41

See also BASSET (R4) etc.

JC(1871), 52: (Cu, wkg.) Chalcopyrite.

Dewey (1923) 29. Cu ores produced 1826-32, 1845-78

1" (189) 67 40

NORTH Wh. BASSET, Illogan, Cornwall. R 39

See also BASSET (R4), etc.

BM: Malachite; with cuprite.

Dewey (1923) 29. Cu ores produced 1846-1866

OLD Wh. BASSET, St Agnes, Cornwall

See Wh. MUSIC

1" (189): SW 69₅ 39₅

SOUTH Wh. BASSET, Illogan, Cornwall (I) R 40

See also BASSET (R4), etc.

JC (1871), 51: Argentite; autunite; azurite;
chalcocite; copper; fahlerz;
malachite; rock xl; johannite?

Rutley, 15th Ed., 160. Autunite.

BM: Torbernite, in limonite.

Dewey (1923) 29 Cu ones produced, 1833-36,
1838, 1845-61.

S. Basset

(Spec → RSWB via B. Cooper, 3/74)

Cyanotrichite ("checked, BM") "S. Wh. Basset,
"Mr. Carnkie" Light blue woolly &
radiating;

CMRM(1995) Chalcophyllite;

Dines(I) 39, 361. (1956). Cu mine S of Wh. Basset &
W of the S part of Wh. Buller. = W. Wh. BULLER in
1849. Torbernite, autunite

BMS Newsl. (1996) 45 2. Brochantite (star-
shaped xls.) [Isobel Geldart] 5 cyanotrichite
BMSN (1997) 46, 6. BMS Coll. (R. Bell). Apatite; siderite

S. Wh. BASSET, Illogan, Cornwall (II)

B. Craik-Smith, spec → RSWB for ident. (8/99):

Siderite (FTIR), brownish-yellow, bright sharp transparent xls in sub-parallel clusters of rhombohedra (Micro but v. attractive).

1" (189) 680395

WEST Wh. BASSET, Illogan, Cornwall. R. 42
See also BASSET (R4) etc.

JC (1871), 51: (Cu, Sn, wkg.) Chalcopyrite; cuprite.

BM: Uranospathite, tufts of yellow xls. on black gozzan.
chalcocite.

Dewey (1923) 27 Included in BASSET MINES, Ltd.
Cu lode rich down to 100 fm level.
good gozzans, esp. in N part of mine, with
Cu & Sn ores. Cu ores produced 1852-1890

CMRM (1995) cuprite var. "chalcotrichite"

BEACON, Cornwall.

Hosking et al Camb. Sch. of Mines Mag (1956) 56 30
(MA 16 168) Distribution of Zn in C.S.M.
mine, near Beacon

[Where is it?]
(possibly the St Austell "Beacon", SW 98 53)

BEACON HILL St Winnow (ⁱⁿ lost with hell ~~luxury~~) Corn.

See SILVER VEIN MINE

1" 190

SW 76 16

BEAGLE'S HOLE St. Keverne, Lizard, Cornwall
See also Wh DOWNAS

OS 1" 190 "BEAGLE'S POINT" at SW 767 165

Russell Soc Newsletter 20 (1990)

17th June 1989 The Lizard No. II. The 8 members attending were led by the Rev. V. Holyer to several locations in beautiful summery conditions. Sea level collecting of green stained calcite at Beagle's Hole provided micro specimens of an unidentified copper chloride. In addition, a carbonatite-type calcium/magnesium mineral was observed, together with traces of copper mineralization in a serpentine breccia.

1" 185 Roche SX 00 58
BEAM MINE, St. Austell, Cornwall
See also N. GOONBARROW PIT

SA

7

Min. Mag. 25, 351, (1939). White Beryl in fissure in granite, with cassiterite and tourmaline.

BM: Cassiterite from GREAT BEAM MINE.

JC(1871), 60. ($\text{Sn}(\text{wkg})$) Cassiterite; kaolin;
melanconite; olivenite; talc;
pharmacosiderite; wolfram;
wavellite? ✓

AR MM 21 221 Topaz, with cassiterite,
tourmaline, quartz

C Rogers (1968) White beryl OLD BEAM M.

Gt. BEAM MINE, Roche, nr St Austell, Cornwall

~~See~~ BEAM MINE

BEARAH TOR QUARRY, Upton Cross, Cornwall

See BARRAH TOR QUARRY.

1" 190

SW 70 39

Wh. BEAUCHAMP, Redruth, Cornwall.

See also Wh. BULLER; ST DAY UTD. M's.

Dewey (1923) 28. Five lodes. Cu & Sn ores.

Cu ore produced:

S. BULLER & BEAUCHAMP:- 1821-1856.

BULLER & BEAUCHAMP:- 1823-1828, 1832-36, 1838.

p 35. Part of (St DAY) UNITED MINES, On.
GREAT LODE

P. Kingsmill "Goethite" Min. Realm (1983) 2 [4] 28-30
goethite..

Wh Beauty, Lelant, Corn

See E. Wh. Reeth

1" 189

WHEAL BELL, St. Erth, Cornwall.^{SW 5 3}

H 37

Penzance Mus: Anglesite

JC (1871), 49: Anglesite; pyromorphite.

BELLACE MINE, St. Just, Cornwall

See BADGER Sh., BELLAN Sh.

2 1/2" SW 33 359310
BELLAN SHAFT, St. Just, Cornwall

BELLACE MINE of 1/2" RSWB? nl

Corn gloase. Tin mine ✓

Wenwood: Amethyst, at "Wh BELLAN".

JC (1871) 47 "Wh. BELLON"

Amethyst; mica.

6 September 1992 Wheal Bellan, St Just, Cornwall RSN (1994) 24

There was a good turnout for this trip despite the St. Just speciality of near-impenetrable fog. On re-assembling from the rendezvous point to the location in Cot Valley, we kitted up prior to inserting ourselves underground via the collapse in the access adit to Bellan no.2 shaft. As the leader had brought plenty of ironmongery, those who came poorly equipped were catered for. Please note that the branch has equipment for loan on Society trips, and this is currently held by Tony Amos.

Copies of Tony Bennett's excellent plan were distributed to familiarise members with the layout of the mine. A length of electron ladders down the shaft gave access to an intermediate level as access to the main level from the shaft itself is blocked to the northwest and curtailed by flooded winzes and stopes to the southeast. A ladder had been brought with us in the event that the steel ladder (obtained from deeper underground) had fallen down one of the two raises that had to be crossed. This proved a wise precaution as the steel ladder had been put back in its original position. Another run of electrons allowed us to descend to the main level via a dump hole and stope.

The first location took us to the south eastern extremity of the mine where smoky quartz crystals could be collected from the cross-course which has created a collapse just inside the entrance of Top Adit. The route took us past Bellan no.1 shaft in Wh. Venton Lode to the cross-cut north and then east to Red Dippa no.1 Lode. Access to Red Dippa no.3 is by a 7m vertical climb up the stope wall. Once again the foresight of bringing an electron ladder proved fortuitous as the steel ladder which had been rigged earlier by the leader had been repositioned.

Whilst some of the party started collecting, others waited their turn whilst the more adventurous used the time thrutching around various holes in the hope of finding an alternative location. With the water table depressed to an unusually low level (must be something to do with the economic climate) it was possible to explore the recently exposed lower level on Polandnarrow Lode.

Retracing our route we headed towards another promising area in the extreme north-west where Wh. Bellan and East St. Just Utd. merge. The

crossing of collapsing pillars by walking on free-hanging tracks proved to be an entertaining experience for the uninitiated. In a stub cross-cut south some attractive blue 'flowstone' was observed, but not identified, although the presence of brochantite, connellite and langite was postulated. Please note that some material was taken from isolated drips with the main flows being left intact and undisturbed. To enter the rest of the East St. Just Utd. workings it would be necessary to climb a steep stope wall and being short of the necessary time and equipment, it was decided to leave this for another trip. Anybody capable of a 5m wide bridge is welcome to demonstrate their ability next time we're at this location.

As usual with a fairly sizable party the climbs took quite a time and it was well after 5pm before we came to grass.

Although not a great deal of collecting was done, the trip was enjoyed by everyone and it is likely that next year an underground familiarisation course will be held at this venue. For those wanting to learn or become proficient in rope and ladder techniques this will be ideal opportunity in a realistic situation.

Chris Scheduling

Wh. Bellon, St. Just, Corn.

See Bellan Shaft.

" 185
BELOWDA BEACON,

Cornwall ^{SV} 97 62 20
SA

Some 200 yds N of the trig. point, small trial for wolfram.
~~MM~~ Topaz - MM £20, 221 (1924).

GR June '55. Topaz-tourmaline rock with wolfram and
blueish asbestiform stuff. Small roughish xls of
topaz in vughs - GR.

Drugman, MM (1927) 21 366 B-quartz veins

GR MM 21 N of old mine, comparatively recent trial
gave good topaz, gibberite & quartz -
tourmaline rock. Also wolframite

Mine = BELOWDA HILL MINE.

tourmaline, topaz

Cassiterite, quartz,

C. Rogers (1968)

Topaz

CMM (1995)

Quartz (ψ -after β);

1" 185

SW 96 62?

BELOWDA CLAY PIT, ~~St~~ Roche, Cornwall

CMRM (1995) Quartz (ψ - β -); topaz

Belowda Hill M,

Cotn.

See Belowda Beacon

1" 190

SW 714 397

BELVEAN or BELLVEAN MINE, Gwennap, Cornwall

See also TRESAVEAN M., etc.

Dewey (1923) Included in TRESAVEAN

1" 186

SX 398 7315

Wheal BENNY,

Calstock,

Cornwall

Dines (1956) II, 649, 652. Shaft & 4 adits driven
E on EW lode into cliff-like bank of Tamar
opp. Lamerhool, $2\frac{1}{2}$ ml E by S of Stoke Climsland.
"Tin, arsenic & a little wolfram" [ie
cassiterite, arsenopyrite, wolframite]. Said
to be another lode, to S, with Cu,
As & Sn but no records of its exploitation
Outputs recorded 1884-5, 1918. Run 1918-20
with E. KITHILL M v 1 ml to S.

BV Cooper 4/79. Spec $\rightarrow$ RSWB Scorodite.

1" 186

SX 271 755

BERIOW MINE, North Hill, Cornwall

See also HAWK'S WOOD M.,

Dinos (1956) II, 587-8. At granite-killas junction
Quartz-chlorite vein, pyrite, chalcopyrite,
sphalerite; fluorite; chalcocite,
melanconite

1st 186

SX 01 64

Wh. BETSY, Tremore, Lanivet, Cornwall.

AWGK MM 32 921

Helvite, scheelite.

Roy Stankey ^{2/85} Scheelite ^{small} ~~tiny~~ colourless
bipyramids. Wh. Betsy, Tremore Bridge

AWGK MM 32 921 (1961) calc-flinta with chlorite,
traces fluorite, chalcopryrite, sphalerite;
Scheelite, small pale yellow bipy. xls
in pale green sealy chlorite with quartz

Wh Betsy

and calcite. Yellow Fe-stained helvine
xls (part anal. ~~is~~, also GR IR).

Jines (1956) 513 small Cu mine

BM X-ray 4594 F = ? cacoxenite "Wh. BETSY"
[probably this one!].

CMRM (1995) Axinite (BODMIN Wh. BETSY); diopside
("sahlite"; BODMIN Wh. BETSY); helvine (BODMIN Wh. BETSY);
N. Hubbard, spec → R510B (01-78), 8/01. Bertrandite,
sheaf of good xls in chlorite with quartz.

1" 190

Nr. SW. 733 490

BEVAS MOOR MINE, St. Agnes, Cornwall.

AKHJ (1962) 2 21 = OLD E. TYWARNHAYLE; Wh.

CLIFTON (1835). Copper ore, including metal
[ie native Cu]; manganese[ore]

BILLIA MINE, Towednack, Cornwall.

See GIEW MINE

189
BINNER DOWNS, Gwinear SW 61 34
Cornwall B8

See also Wh. TREASURY, etc. Wh. STRAWBERRY, Wh.
CRENNER & ABRAHAM.

Henwood: Vg calcite; celestite; galena.

TMH(1868), 40. "Helston" blende; celestite; chlorite;
copper; galena; malachite;
pyrite; chalcocite; chalcopyrite.

DBB(1963) 18. SE of Leedstown, on both sides
of road to Crenner grove. Ancient Cu mine
at work in mid-18th cent. V. rich by 1830's
but involved heavy pumping so soon closed
& never reopened. Wh. STRAWBERRY nearby
on same lodes as CRENNER & ABRAHAM, (qv)

Dewey (1923) Cu ores 1819-38

R. Selley (2013) BMSN 90, 32. Vuggy chlorite,
sparable cassiterite, anatase, siderite,
chalcopyrite, apatite xls, (cuprite xls in
slag).

1" 190

SW 77 41

BISSE

Cornwall

See also CARNON STREAM WORKS, Feock.

Anon. Mine & Q'y Eng. (1962) 28 2-9. Hydraulic
lin. R. Carnon valley, nr Bissoe

1^u 190

SW 77 16

BLACK HEAD, ST. Keverne, Cornwall.

L 22

Jc(1871), 54: "Diallage"; serpentine; steatite.

1" 185

Cent on. SW 98 54

BLACKPOOL PIT, ST. Austell, Cornwall

CMRM (1995) Arsenopyrite; forbernite;

BMSW (2000) 57 & "coffie" forbernite

1" 185

WHEAL BLANCO, St. Stephens, Cornwall

SW 9352

SA

8

Shown on G.R.'s $\frac{1}{2}$ " Cornwall map - 2 mine (15 g.)

Wh Blandford, Perranzabuloe, Com
See Wh Friendship

1st 190 Near SW 728 517 A 16
BLUE HILLS MINE, St. Agnes, Cornwall

Between Trevannance & Trevellas Cove. See also Wh. KITTY

Wood tin (Awak spec.) (in GR coll.)

JC (1871), 57 (Sn) Cassiterite ✓

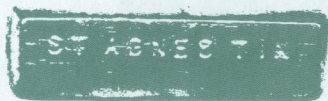
C. Rogers (1968): Extensive, barren dumps.

AKHJ (1962) 2 30-31. E extension of GOONLAZE
(Wh. KITTY) Lodes. In 1815 CONSOLIDATED TIN
MINES = BLUE HILLS MINE = Wh PINK + DELICK
+ GOONLAZE + NANPATHA + Wh GLYNN (= Wh. MADLY)
+ Wh. JOY.

SMELTED TIN GIFTWARE

We have a selection of giftware made out of Cornish tin that is won, worked, smelted and cast at Blue Hills Tin Streams.

Tin Seal



Tin Ingot



Celtic Cross

HOW TO
FIND US



Take the B3285 between St. Agnes and Perranporth turning off at the sign to Wheal Kitty. After 300yds turn right at the Grass Triangle. Follow the road along and down over the steep hill (past the blue signs) into the valley and look for the sign to our works.

Open 10.30 a.m. Mon. to Sat. inclusive.

Last tour begins at 5 p.m.

April 1st to October 31st.

Tours last approximately 1-1½ hours.

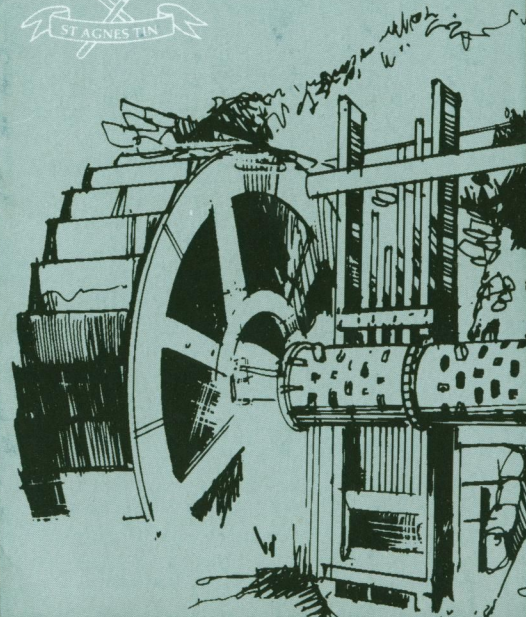
Group bookings taken all year round from schools and other interested parties.

Colin & Mark Wills
Blue Hills Tin Streams
Trevellas Coombe
St. Agnes
Cornwall TR5 0YW
Telephone 01872 553341

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BLUE HILLS TIN STREAMS

*'Discover skills of the ancient
tinner on the fascinating
journey from rock
to metal'*



Obtained 5/2000

BLUE HILLS TIN STREAMS

Situated in a valley steeped in mining history close to the beautiful cove at Trevellas Porth.

History

Tin has been produced in this valley for centuries. Early tin streamers worked alluvial sands and gravel on the beaches and valley floor. Later miners tunnelled into the hillsides and sunk shafts deep below the valley floor, following the tin-rich veins of ore.

By 1810 these many smaller mines were incorporated into the Blue Hills Sett, employing up to 100 men. The mine closed in 1897, but tin production from tin streaming has continued almost without interruption up until the present day.

The Wills family have been a part of this tradition at Blue Hills since 1975 producing many tons of tin ore. Generations of the family have worked in mines around St Agnes and many other countries throughout the world.

It is now possible to see this fascinating process on a tour of the works.

'From mineral to metal' How we process the ore

The rock is first crushed under the iron shod stamps to a coarse sand, then finely ground in a ball mill continually flowing onto a shaking table which washes, separates and concentrates the ore.

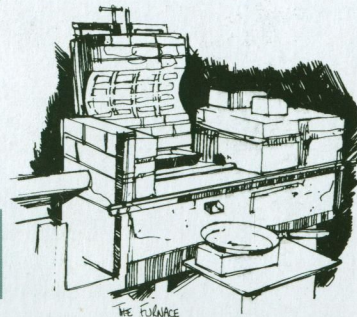
The heavy tin concentrates are mixed with necessary ingredients and smelted under intense heat in our furnace where the brilliant white metal is run from the rock.

Demonstrations of: Vanning, Panning & Jigging. All skills of the tinner's ancient craft.

Ball Mill: Grinds the coarse sand from rocks crushed under our stamps

Shaking table: Washes, separates and concentrates the ore

When needed the ore is smelted in our furnace to recover the brilliant white metal



1" 190

SW 737 518

EAST BLUE HILLS MINE, St. Agnes, Cornw.

AKHTJ (1962) 2 32. A plan of 1700 shows
BUDNOCK & Wh. GRASS on this site.

Nenwood. Wh BUDNICK, St Agnes. Blende, galena,
chalcopyrite

Blue Work M, Redsmith, Com
See Redmandrea M.

CMRM (1995) Senarmentite; valentinite.

BODMIN Wh. BETSY, Lanivet, Cornwall

See Wh. BETSY, Lanivet

1" 1966

SX 041 652

BODMIN Wh. MARY, Lanivet, Cornwall.

See also Wh. DING.

AUGR MM 32 921 $\frac{2}{3}$ ml N of Lanivet, 250 yds S of
Hooper's Bridge. On E side of valley.

W portion = Wh. DING, [qv]. Calc flintas, skarn.

Alabandine, bornite, helvine, chalcopysite, blende,
skarn silicates.

Dines (1956) 515 = BODMIN CONSOLS = BODMIN UTD. Includes
Wh. DING. Wh Ding section - two shafts in Bodwannick
wood, 50 & 150 yds W of river, & small crop workings
Quartz, pyrite, blende, well formed xls calamine & calcite,

cracks are stained with "iridescent black
manganese oxide or franklinite" [?!]

Wh. MARY on E of river. Chalcoppyrite, galena,
otherwise similar to wh. Diny

CMRM(1995) Wollastonite.

1st 186 SX 16, 17, 18, 26, 27, 28
BODMIN MOOR, Bodmin, Cornwall. K 80

JE (1871), 62: Stream fin. ✓

Exley, Geol Mag (1961) 98 427 A note on greisenizing
in B. Moor granite

Barrowe Thomas MM (1908) 15 113 Metam. minerals
in calcareous rocks in Bod. & Camelf'd areas.

ph:llack ^{2 1/2" SW 53} 580397 1/2
BOILING WELL MINE (Gwinear.) Cornwall

H ²³
~~43~~

By National Explosives Works.

JC (1871), 50: Galena.

1" 189

SW 43 26?

BOJEWAN, Sanchreed, Cornwall

5 V 4029

CMRM (1995) "Wood" cassiterite (BOJEWAN
PLACERS)

1" 189

2½" SW 53 514328

WHEAL

BOLTON,

Ludgvan,

Cornwall

M

14

Cu mine

Bonney M., Sr. Austell, Conn.

See Bunny M

1" 190

SW 734 304

BOSAHAN QUARRY, Constantine, Cornwall

CM Rice & JM Williams MM (1969) 37 210-5 "A

Mössb. study of biot. weathering". Biotite
from Bosahan Q., 5ml WSW of Falmouth

CMRM (1995) gibbsite

1" 185, 186, 174

Village SX 09 90

BOSCASTLE, Fowabury, Cornwall. E 24

JC (1871), 63: graphite.

1" 189 SW 38 34 ~~SE~~ NW
BOSCASWELL DOWNS MINE, St. Just, Cornwall.

See also BOSCASWELL MINE etc; Wh. POWLE; GEEVOR MINE

Henwood : Cassiterite, mixed with native Copper

JC (1871) 47 BOSCASWELL or BOSCASWELL DOWNS MINE (Sn, Cu; wkg)
Chalcedony; cassiterite

DBB (1963) 12 Main shafts in centre of village.
Sn mine. N. BOSCASWELL & Wh. POWLE
later added to the sett. Now
part of GEEVOR MINE. Lodes NW-SE

CMRM (1995) "Blister" chalcopyrite; haematite
(BOSCASWELL M.);

BOSCASWELL MINE, St. Just, Cornwall.

SEJ 41

See BOSCASWELL DOWNS MINE (SEJ 44)

See also N. BOSCASWELL MINE (SEJ 13)

BOSCASWELL UNITED (SEJ 42)

E. BOSCASWELL MINE (SEJ 43)

See also GEEVOR MINE

1" (189) 391 340 (SW)

EAST BOSCASWELL MINE, St. Just, Cornwall. StJ 43

See also BOSCASWELL MINE, etc

Tin mine. ✓

DBB (1963) 12 Earlier known as Wh. HEARLE.
Same lodes, NW-SE, ~~as~~ B. DOWNS etc

NORTH 1" 189 2½ SW 33 380 35½
BOSCASWELL MINE, Pendeen, St. Just, Cornwall STJ 13
See also BOSCASWELL MINE, etc.

East Boscaswell Mine	1" 189	391 340	Sn Mine.
Boscaswell United Mine	1" 189	383 344	Sn Mine.
Boscaswell Downs Mine	Henwood.	<u>Cassiterite</u> , mixed w. <u>native Cu.</u>	

DBB (1963) 12 . Later part of BOSCASWELL DOWNS M.

1" 189 383344 (SW)

BOSCASWELL UNITED MINE, St. Just, Cornwall. StJ42

See also BOSCASWELL MINE, etc.

Tin mine

1" 189

SW 43 23

BOSCAWEN CLIFFS, St. Burian, Cornwall. St) 36

JC (1871) 47.

Axinite; rock xl.

(old) Dana 529

Axinite

1" 190

BOSCAWEN MINE, Kenwyn, Cornwall. R 75

SW 73 45

Jc (1871), 60 (Cu, Sn, Zn, wkg.) Chalcopyrite; blonde

1" 189

SW 36 32

BOSCEAN MINE, Boscreagen. St Just, Cornwall ~~St J 24~~ 45

See also LOWER BOSCEAN MINE (St J 24)

JC(1871) 47 (Sn, wkg.)

Fine imbedded xls of reddish-
brown & white orthoclase ✓

1" 189 364324 (SW)

StJ 24

LOWER BOSCEAN MINE, St Just, Cornwall

See also BOSCEAN MINE (StJ 45), Wh. OWLES etc
Sn Mine

RSWB 8/59

Loc 133

vg Tourmaline (black), with quartz. good goethite.
[Schore]

1" 189

SW 3 3

BOSHASE MOOR, St. Just, Cornwall. STJ 47

of BOSTRAZE Pit SW 3831

JC (1871) 47

Stream Tin.

1" 189

SW 36 31

BOSORN MINE, St. Just, Cornwall.

SAJ 46

See also BOSORNE & BALLOWALL UTD M's etc.

JC (1871) 47

(Sn, wkg).

Occas. fine xls. cassiterite

1" 189

SW ca 360 312

BOSORNE & BALLOWALL UNITED MINES

St Just, Cornwall

See also BOSORN, BALLOWALL, ST JUST AMALGAMATED.

1" 185

SX Nr 065888?

BOSSINEY SLATE QUARRY, Tintagel, Cornwall

Quarries (1963-4). Slate quarry, working

1" 189

SW 385 316

BOSTRAZE China Clay Pits, St. Just, Corn.

cf BOSHABE MOOR

S. Clark, Priv. Comm. 5/78

LOWER BOSTRAZE

China clay pit, very small, produces very
fine amethyst with glassy faces; also
smoky ~~stone~~ quartz and cassiterite. Schorl

"At 389₃ 315₅"

Visited briefly 7/80. Is at 385 316,

NOT at 839 316

1" 189

SW 35 32

BOSWEDDEN MINE, St. Just, Cornwall.

See Wh. CASTLE, Wh. WILLIAMS, PRAZE & YANKEE BOY MINE.

Dines (1956) 68.

Earlier known as Wh. CALL or COLE, and includes Wh. CASTLE, Wh. WILLIAMS and PRAZE and YANKEE BOY MINE.

On Kenidjack Cliff, 1 mi NW of St Just, in metam. Kellars & greenstone on the coast, overlying granite to the SE.
Believed started early 19th cent.

Output records show copper, tin, & some haematite

BMS Newsl. (1997) 46, 10; Coll: Apatite ("var.") (A. Hanton)

1" 189 2 1/2" SW 33 362330-5
Cliffs near BOTALLACK, St. Just, Cornwall (I) 8
See also ROSCOMMON CLIFF

A.R., Min. Mag. (1910)

Analcime ✓

Alderman,

Min Mag 24, 42, (1935)

Almandine ✓, deep red, imbedded
in a rock not far from low water mark at
foot of Chycornish Carn 1/4 mile S (?) of Botallack
(Near low water mark on cliffs close to Zawn a
Bale between the crowns & Wh. Edward) in
✓ biotite rich layer of the altered greenstones.

See also Carne, ROSC 2 309 (1822). Only traces
of garnet remain. Specs in Carne coll.

Tilley, Min Mag 24 191 (1935) & Alderman, loc. cit.
✓ glaucophane, $\text{Fe}_7\text{Si}_8\text{O}_{22}(\text{OH})_2$, in greenstone hornfels
with almandine

Botallack cliffs

Rudler (1905) 24. Apatite in greenstone cliffs.

p. 30 Axinite, cliffs N of Botallack Head.

100. Almandine garnets almost black.

101-102 Prehnite in cliffs nr Botallack.

CMRM (1995). Anthophyllite; antlerite;
cummingtonite; ferro-hornblende; graphite;
hornblende; jarosite; mesolite; natron;
~~anthophyllite~~ pargasite (amphibole); Sr-titanite;
Vesuvianite; cordierite (B. HEAD);
"paratacamite"; titanite (GRILLS BUNNY)

Antlerite: see J Russ Soc (2005) 8, 81-84

BOTALLACK cliff etc, St. Just, Cornwall (II)

RSN (1992) 23

Gold from Botallack

Gold has been found in hand specimens and in thin section in samples collected from cliff exposures near Botallack mine (SX 362340).

Extensive supergene mineralisation occurs at Botallack. The mineral assemblages, which include secondary copper chlorides, oxy-chlorides, sulphates, oxides and arsenates along with native copper, silver and bismuth, chlorargyrite, scorodite, jarosite and gypsum, occur within fractures and vuggy cavities in hematite-goethite-limonite cherty gossan. The gold was observed in two such cavities, one in quartz, with gold grains reaching 5mm in size and the other in a fine grained, iron stained chert, where the gold reached about 1.5mm.

Analysis shows that the gold contains about 2-3% silver and minor amounts of copper and iron. This appears to be the first record of gold from the St Just mining field.

Ref: *Bowell, R.J. (1992) Gold from Botallack mine, St. Just, Cornwall Min. Mag. 56, p.123*

1" 189

2 1/2" SW 33 365330

BOTALLACK MINE, Sh. Just, Cornwall (I) Sh 9

Sn/Cu Mine See also Wh. COCK; CROWNS MINE; WH HEN
"Atacamite" (but ^{intra}) botallackite; axinite; goethite; pyrrhotite;
erythrite; arsenopyrite; almandine.

Min. Mag., 29, 280, (1950). Paratacamite. p199, Smaltite
Rutley, 15th Ed., p.164, Manganite, p.170, Bismuth, p179 Cassit.

Visited, Sept, 1957. Loc 105, large dumps near
Botallack village, being cleared? A lot
of fibrous goethite in quartz - RSWB & GR
See also Crowns Mine.

BM: Langite, light blue xls; translucent reddish botry rhodochrosite;

Is this G. Bowness' Apatite loc? chalcocite; copper
buff prisms in goethite vughs. Hexag prisms
with basal pinacoids. No pyramid faces bismuth

Rutley, 15th Ed., p.200, Cobaltite.

for Rayners Cat (1960): Itaematite ✓

Newwood: Stannite ("Tin pyrite"); Chalcocite ("Vitreous Cu ore"); native
Bismuth

JC (1871) 47. BOTALLACK & CARNYORTH (STJ 25) (Sn, Cu, whg)
with WH. COCK (STJ 6) & cliffs to the N (SW 7). but v. infra.

Actinolite; amethyst; apatite; aragonite; "atacamite"; augite;
axinite; bismuth; bismuthinite; botallackite; calcite; chalcocite;
cobaltite; cyanosite (= chalcocanthite [Hey]); rhodochrosite;
dolomite; epidote; erythrite; fahlerz?; fluorite; garnet;
goethite; goslarite; jasper; cerargyrus; magnetite;
malachite; manganite; mesolite; arsenopyrite;
natroilite; opal; pitchblende; pharmacosiderite;
prehnite; pyrrhotite; silver; smaltite; steatite;
stannite; stilbite; tellingite; tourmaline; tremolite; vivianite; "etc."

BOTALLACK MINE, St. Just, Cornwall (II)

Dines (1956) 72

Includes Wh. COCK, Wh. CROWNS, Wh. CARNYORTH,
BOTALLACK, & PARKNOWETH mines.

GeL (1858) Pitchblende - sparingly; bismuthinite;
nat. bismuth (in some quantity); stannite (occasionally);
chalcocite (v. fine hexag. twins); native copper
(ramose & mossy); cobaltite (Rashleigh: a spec.
is in the Greg coll.); smaltite; erythrite,
investing arsenical cobalt.

Parkinsons Cat (1959). goethite, xls & fibrous;

BOTALLACK MINE, St. Just, Cornwall (III)

DBB(1963)15. Worked from 1721. Mainly Sn, some Cu.
Working below adit ceased before 1900 because
of low tin price. Finally closed 1907; though
joined by Wh OWLES & CARNYORTH.

Dewey Cu(1923)6 Chalcocite in greenstone
p15 Includes Wh. COCK, CROWNS, TRUTHWELL,
CARNYORTH, & OWLES.

Chalcocite, "atacamite" ~~black~~ black & purple
Cu ore (melanconite, ? bornite), azurite, malachite
nat. copper, cuprite, tetrahedrite, chalcopyrite

C.E. Tilley: MM24 191 grunerite

W. Phillips: amethyst; siderite, nat. bismuth,
(1823) bismuthinite, erythrite, chalcocite.

C Rogers (1968): Quartz; botry haem. & ~~pyrite~~
limonite

JRK (1/76) Native bismuth also native silver
in jasper on jasper dump near
houses.

Pollard AM, Thomas RG, Williams PA, Bevins RF & Turgooze S
(1989) J. Russell Soc 2 (2) 23-7.
Carbonation connellite.

BOTALLACK MINE, St Just, Cornwall (IV)

CMRM (1995) Nat. arsenic; "bismuth ochre";
buttgenbachite (XRD BM); chalcocite, in Wh.
HEN section; connellite (Wh. HEN section);
cornubite; cornwallite; digenite (also Wh.
HEN); orthoclase; "pitticite"; pyrite; sadanagaite;
~~smaltite~~ sphalerite; stutemudite (= smaltite);
atacamite; quartz (rock xl; citrine)

Schlomann, C. (1994) Mineralien Welt 5, 48... (MA 95M/2479)
"Botallack - Cornwall's eindrucksvollste Mine."

BMSN (2000) 55, 10 P. Hay → BMS Coll. "BOTALLACK 364 335"
2182: Kasolite; 2183: Dewindtite [Actually = LOE WARREN]

Some of
JRK (Riv) (2001) The excellent botallackites coll. in
LEVANT MINE ~ 1969 by RW Barstow marketed
as from "BOTALLACK MINE".

Rainer Bode (1983) Magma, 14-17 Discov's of
botallackite at Botallack mine and the
1969 find of RW Barstow at the nearby
LEVANT M.

724 507

Wh Bottle St Agnes, Cornw

(= Vottal, vottle)

See Wh Kitty

1st 1885

SX 0281 (I)

BOUNDS CLIFF, Portgaverne, St. Endellion, Corn
See also Wh. SAMPSON (BARRETT'S ZAWN).

David Lloyd, of Ashburton, Devon. Priv Comm 11/83
(RSWB 83-122)
Phosgenite, well-
formed, sometimes ~~transparent~~ small
xls ($\rightarrow$ a few mm) in decomp galena
in quartz vein exposed at Bounds
Cliff, near Portgaverne.

Stanley CJ, Keller, P., Lloyd, D., Jones B.C. and Hart AD. (1990)

Barstowite, $Pb_4CO_3Cl_2 \cdot H_2O$ new species,
aggs. of tiny subparallel elongated

c'less xls; an alter. prod. of phosgenite, in lead veins.

R Soc. N (1994) 24. 8 Unsucc. search for barstowite
quartz vein w. possible stibnite(??), fine
↑ needles [is this the plagionite, v. infra ?]

CMRM (1995) Plagionite; senarmontite;

RSN (1994) 24, 8 [See under Wm SAMPRSON (= BARRETT'S Z.)]
→ Arsenopyrite xls. at base of BOUNDS CLIFF
via the v. slippery miners' tunnel.

BOUNDS CLIFF, St. Endellion, Cornwall (II)

RSN (1997) 30

Before our 5-6 hour journey back to Cheshire (and beyond) we were to visit Bounds Cliff for good arsenopyrite crystals. Here we encountered

several mishaps and problems. The journey down to the cove is through fields along marked routes. It is essential to stick to these routes as one misleading sign sent us through very private land and the aggressive, abusive, 6ft, 16 stone farmer would not listen to or accept our apologies. This path also takes a 20 minute diversion around the cliffs rather than a direct route. We also found that it is best to take lamps and descend the small tunnel which goes through the cliff, as another 30 minutes down hard sloping paths and a large damp rocky cove is very very arduous, especially in hot sunny weather. - 17-

Although time had evaporated somewhat, after searching for a short while we found on the tunnel side of the cove above the pool some very nice (up to 1cm) arsenopyrite crystals which required a little hammer work to collect but were well worth the effort.

gt wh. B → 725 510
Little wh. B → 722 510

Wh's BOWEN, St Agnes, Cornwall.

See wh. Kitty.

BOWLING GREEN MINE, Gwinear, Cornwall

See also W. HERLAND

1" 190

SW 733 513

BOWLING GREEN MINE, St. Agnes, Cornwall

AKHJ (1962) 2 32. At 733 513

1" 190

SW 70 44

Wh. BOYS, Redruth, Cornwall

See also Wh. PEEVOR 70 44

Dewey (1923) 29. Included in PEEVOR UTD. MINES [see
Wh. PEEVOR]

SW 6 ↑ 3 ↑ 7 3
6 ↑ 4 ↓ 7 4

WHEAL¹¹ 185 BOYS, St. Endellion, Cornwall^{SX 00 80} E 4

BM: Bournonite.

JC (1871), 62: stibnite; bournonite; cervantite;
erubescite; jamesonite; minette.

Rudler (1905) 63 Bournonite, with blende,
jamesonite, siderite, etc.

W. Phillips (1823) Bournonite. stibnite [or jamesonite?]

Truro Mus: vg stibnite & jamesonite.

Stewart Clark coll. July 1973; Spec → RSWB 75-21

Native silver, ferny compact crystal cluster
on matrix. Dumps of Wheal Boys, adjacent
to Bodannon farmhouse.

CMRM(1995) Ankerite; bindheimite; "antimony
ochres"; boulangerite; dufrénoyite (Gr);
heteromorphite (?); semseyite; stephanite;
stibiconite; berthierite;

1" 189 SW 370323

WHEAL BOYS, St. Just, Cornwall

St J 23

~~See~~ Wh. OWLES.

Sn Mine. ✓

DBB(1963) 15

At times in Wh. OWLES

Wh. Bragg, Rednuth, Corn

See Pednandrea M

1" 186

SX 198 823

Wh. BRAY, ~~Altarnun~~, Cornwall.

See also ROUGHTOR MINE

GM. Cited as U loc. (cf ROUGHTOR MINE)
Pitchblende, botryoidal masses assoc.
with chalcophyllite, embedded in
altered granite.

Darnley et al MM (1965) 34 166 ... an unnamed
e poorly characterised hydrated uranyl
arsenate [= Al analogue of novacekite]

Rayners Cat (1960) Torbernite + pitchblende

RK Harrison & K Taylor Bull GSGS 25 33-40 (1966)

On N fringe of Bodmin Moor $2\frac{1}{2}$ ml E by S
of Rough Tor M. Dumps at Killo's Sh.,
have pitchblende, m-torbernite-I.

~~CMRM (1995): AG Tarnley, I.H. English, O. Sprake~~

1" 189

SW 48 40
Cornwall

BREA CONSOLS MINE

~~See also~~ TREVEGA BAL

DBB (1963) 11 on cliffs between St Ives & Morvah

1" 189

BREAGE, Cornwall.

(Vill) SW 61 28



Rutley 15th Ed. p. 156.

Scheelite.

CMRM(1995) Kaolinite ("BREAGE AREA")

Breage, Cornwall. (11)

Min. Mag. 14, xxvii (proc. for 1904). A.R., exhibit:
large "babel-quartz", Great Work mine,
Breage.

Wh. BREAGE, Breage, Cornwall

See Gt. WORK MINE

1" 190

SW 72 39

BREWER MINE, Gwennap, Cornwall.

See also TRESAVEAN M., etc.

Dewey (1923). Included in TRESAVEAN MINE

1^a 190

SW 7# 44

Wh. BRIGGAN, Redruth, Cornwall.

See also Wh. PEEVOR
cf Wh BRIGGAN St Agnes

Dewey (1923) 29. Included in PEEVOR UTD MINES [see
Wh. PEEVOR]

1" 190

? SW 7 5

Wh. BRIGGAN, St Agnes Cornwall. A 80

cf Wh. BRIGGAN, Redruth SW 71 44

TMH (1868), 32.

Blende.

1" 186

WHEAL BROTHERS, Calstock; Cornwall. SX 391 701
K 23

= Wh ~~Wheal~~ BUCHY

See also SILVER VALLEY M, Collington

BM: Silver

⇒ [Hey:- pyrrarg or proustite]

Rutley, 15th. Ed., p. 221, Ruby silver, pyrrargyrite.

Henwood: Qtz, blende, pyrite, galena, silver, pyrrargyrite, chalcop-
-pyrite, vitreous & black silver ores

[Hey = acanthite]

[Hey = stephanite]

JC (1841), 64. (Cu) Argentite; pyrrargyrite; silver;
blende; chalybite; galena.

CMRM (1995) Chlorargyrite (Wh. MEXICO, Calstock)

Dines (1956) II 633 SILVER VALLEY M one worked
with it

RSN(104) 45, 49-50 (Bill Mason). Visit.

Started ~1810 as WH DUCTY for Cu on E-W lode, in
killas. Siderite, chalcopy, pyrite, arsenopyr, a
little cassit, traces nat silver, in quartz &
chlorite. x'd by N-S lodes w Ag-galena, sphal.
At intersections small rich pockets of nat. silver,
"argentite" [acanthite], pyrargyr, stephanite.
"not proustite".

On visit nothing v. interest on small dumps —
gal, sphal, qtz, mass siderite, pyr, arsenopyr.

1" 189

SW 509 378

Wh. BROTHERS, Lelant, Cornwall.

AKHJ (1961) 1 34-35 . 4 NE-SW lodes - Ken, Davey's,

Wh. Ancient & another.

East Wh. BROTHERS, Callington, Cornwall
= Wh. NEWTON, q.v.

1" 185

SW 97 61

BRYNN ROYALTON MINE, Roche, Cornwall. SA 52

See also BRYNN MINE (SA 51); Gt. ROYALTON (SA 53)

JC (1871), 60: (Sn, wkg.) Cassidolite.

11185

(TYE)

SW 982 625

BRYNN MINE, Roche, Cornwall.

SA 51

See also BRYNN ROYALTON MINE (SA 52)

JC (1871) 60 (Sn, Wg.) Cassiterite ✓

=BRYNN TYE M. SW ~~982~~ 982 625

Wh. Bucket, Lelant, Cornw

See Wh. Merth

1" 190

~~SW7D~~ SW7D, 41₂

Wh. BUCKETS, Redruth, Cornwall

AKHT (1962) 3 13. Served by adit from centre
of Redruth.

CMRM (1995) Manganite (Wh. BUCKETS, Redruth);
psilomelane (Wh. BUCKETS, Redruth); Rose
quartz (Wh. BUCKETS, Redruth)

1" 174

SS 20 06

BUDE, Cornwall

CMRM (1995) Pyrophyllite ("BUDE-NEWQUAY
COAST" - [sic!])

1" 185

SW 77 53

A. 54

BUDNICK CONSOLS, ^{77 54}Perranzabuloe, Cornwall

See NEW CHIVERTON CONSOLS (A 53); also Wh. BUDNICK (A 19)

Dines (1956) I; 26, 43, 436, 437, 448-9 = BUDNICK M +
Wh. ROSE

Galena assoc. with cassiterite Production
 $\text{Cu} > \text{Sn} > \text{Pb} > \text{Zn} > \text{Ag} > \text{Fe}$. Lodes assoc w.
elvian dykes - poss. a small emanative
centre. Elvian dyke has tourmaline &
cassiterite - interwoven with Lead Lode
with gal. sphal some chalcopy, cassit
in wall rock. Lower more cassit.
in quartzose killas. North South &
Counter Lodes are cassit-bearing.
A barren X-course may = the Wh. Golden

Lead lode.

Adits, shafts detailed.

1" 185

SW 77-8 54-5

WHEALS BUDNICK, St. Agnes, Cornwall

A 19
M

See also BUDNICK CONSOLS (A54, 53)

See E. BLUE HILLS

Henwood: Zinc blende ("blende"); galena; chalcopyrite

[? = BUDNOCK = E. BLUE HILLS M. qv]

AKHJ (1962) 2 32 Ca 1830's Wh. CLARENCE formed
from N, S & E BUDNOCK (BUDNICK), BUDNOCK
TREVELLAS, & Wh. BARKLA

p 448 ff
~~Dines~~ ^{Dines} gives the BUDNICK CONSOLS group [qv],
Perron Zabuloe - much detail.
States p 450 that Wh. HOPE [qv] includes
SOUTH Wh. BUDNICK. p 449 EAST BUDNICK
(= Wh THOMAS & BUDNICK UNITED), 1 3/4 ml NE of

Perranporth; Eng sh is 430 yd S by E of
Stampas farm [ie. SW 785 553]. "Lead ore,
black tin" [ie galena, cassiterite]

1" 190

SW 7

3

BUDOCK VEAN; Budock Cornwall.

L 46

JC (1871), 57:

Bournonite; galena.

Wh. Buggins, Redmuth, Corn

See Rednandrea M

WHEAL BULLER, Redruth, ^{1" 189 N. 70° 40' E.} Cornwall ^{70° 39' E.} (I) R 3
See also Wh. BEAUCHAMP, PENSTRUTHAL,

Min. Abs., 12, 281: Metatorbernite (BM with qtz & pyrite)

Rutley, 15th. Ed., p. 159, torbernite; p. 205, copper;
p. 213, azurite

Henwood: Cu carbonates; "uranite"
Wh. BEAUCHAMP is a lode of Wh. Buller.

~~Wheal~~
N. Wh. BULLER ^{RSWB 8/59} Dumps @ 1" 189, 698403. Covellite
Loc 127

Collins (1871) p 56. ^{→ R37} "Penstruthal & Huel Buller" Copper & Tin Mine.
p 52 Wh. BULLER (Cu, Sn²⁺, wkg.). Amethyt.

calcite; cassiterite; chalcocite; chalcoprysite;
chalybite; azurite; copper; cuprite;
fluorite; malachite; melaconite; opal;
olivinite; pitchblende; rock xl.; torbernite;
zippeite.

GEL (1858). Native copper; cuprite, formerly; olivinite;
melaconite, in gozzan; azurite, of a beautiful
colour; chalcocite; chalcoprysite, in perfect
tetrahedra $1\frac{1}{2}$ in along edge; zippeite,
formerly, small green earthy globules;
calcite; torbernite, small dark green xls,
highly modified (these were v. phosphorescent
when first found) [?].

Contd II

Wt. BULLER, Redruth, Cornwall (II)

Dewey (1923) 28. "BULLER & BEAUCHAMP". produced

Cu ores 1823-1828, 1832-1836, 1838. "BULLER", 1845-75.

S. LODE - melaconite with quartz, felspar
e siderite.

N. LODE - chalcocite e melaconite down to
50 fm level.

DAVEY'S LODE - 1-20 ft wide, with "carbonates
and arsenate of Cu, black oxide of Cu, chalcocite
e chalcopyrite, with quartz, chlorite e
fluorite.

Atkin et al. MM 47 393-6 (1983) Tristramite
new U min, of rhabdophane group.

CMRM (1995) goethite; quartz (citrine, smoky,
orange, amethyst)

N. Wh. Buller, Redruth, Corn.

See Wh. Buller.

1" 190

SW 70 39

SOUTH Wh. BULLER, Camborne, Cornwall.

See also Wh. BULLER; Wh. BEAUCHAMP.

Dewey (1923) 29. Cu ores produced: "S. BULLER
BEAUCHAMP", 1821-1856

1st 185, 190
BUNGAY MINE, St Agnes, Cornwall. SY 704 506

See also POLBERRO MINE, etc., wh. DEVONSHIRE, BUNGAY &

KCD (1952) 117 An old mine in W part of Polberro
mine sett, 1 ml W. of St. Agnes. Abandoned
ca 1880. Much green fluorite on dumps.
Included in Wh. DEVONSHIRE in 1841.

AR MM 21 221 Topaz ✓

Dines (1956) I, 475. 3 sh's: Engine sh 400 y SE
of White Rocks [ie? (White Rocks not on 2½" OS map)],
2nd 300 y SE of Eng sh, & 3rd 400 yd SSW. An

adit on cliffs 300 y W by S of Eng Sh.
Granite penetrated. Dumps have green
colourless fluorite

1" 185, 190.

SX 704 5066

BUNGAY Q'y ~~and mine~~, St. Agnes, Cornwall

See also BUNGAY M.

RSWB (7/93). Visited after info. received.

Small quarry with restored & protected shaft associated. At granite-killas contact - peculiar rocks, some w. large orthoclase phenocrysts with varying degrees of kaolinitisation. A thin late-stage calcite veinlet in SW part has w/1 cm circles of fluoride var. "BLUE-JOHN" - banded !! Haematite, cassiterite, pyrite, chalcopyrite (?), rare ce stains, ~~sch~~ schorlite. Said to be red tourmaline.

also cassiterite, molybdenite,
bismuth etc. Cone-shaped aggreg's
of cassiterite ("diamond tin") said
to be found in sand/clay pit
nearby [704508 or 705509?]
Bungay Q. used by Camb. Sch. of Mines
(presum. for teaching) acc. to native.

1" 189

SW 3 3

THE BUNNY, St. Just, Cornwall.

~~SW~~ 1641

TMH (1868), 43: Cassiterite; chalcedony; schorl.

26/7/93

Bungay M/Q, St Agnes

SW 704 507

At grain/kilbas
contact

from porph w
large ol phenox
to ~ 2". Varying

degrees of kaolinitish. Mixture of rocks!

Much Qtz-chlorite-felspar rock
w patches small patches cupy
etc. some red w haem

(specular in places) & brown
w goeth. some Qtz xls (milky)

Thin later low-t calcite-~~fluorite~~
veins with occas rosettes bands

B-I fluorite! $\rightarrow$ ~ 1 cm.

also
said to be cassit moly bism! mte
used by Camb sch of mines

1" 186 007 571 SX
BUNNY MINE, St. Austell, Cornwall

SA 6

On moor, v. diff. to find (P.E.). Shown on RSWB's $\frac{1}{2}$ " map

AR Min. Mag. 28, 353 (1948). "On W side of ~~road~~ Roche Road,
Rashleighite, etc. $3\frac{1}{2}$ ml N. of St Austell"

BM: Ferri-turquoise, rashleighite, light blue green
or green botry, sometimes with wolframite;

MM 29 817 (1952) Varlamoffite.

AR, MM 21 221 = ST AUSTELL HILLS MINE = SHELTON M.
Topaz, tourmaline, quartz, cassiterite

JC (1871), 61. Sn mine - SHILTON (BONNEY) MINE.
Cassiterite.

HILL MINE, St Austell (Sn). Cassiterite, topaz

orthoclase, tourmaline.

Rutley 15th Ed., p 126. Topaz.

RW Barstow's Cat. 1/81. Turquoise, massive
with minute well-formed crystals in
cavities, minor varlamoffite, muscovite.

CMRM (1995) stannite.

1" ~~1889~~ 190

SW 76 36

BURNT - HOUSE, Gluvias, Cornwall.

L 39

Jc(1871), 57:

Magnetite.

Lizard area?

1" 189/190

JC 1871 57

Rosecrow Mt

Treluswell

chloride, Aspy, Pitchblende

also glaucon

761 378

St glaucon

SX 410 585

BURRATON COMBE QUARRY St. Stephens, Saltash. Cornwall K30

BM: Arsenic. ✓

MM 20 299 (1925) Arsenic ✓

MM 27 1 (1944) Arsenolite; realgar.

Rayners Cat. (1960) Arsenic, pure massive.

AR MM 20 299 Arsenic in a nearly vertical NS joint,
now worked out. ✓ Traces arsenolite, also
arsenopyrite, calcite, dolomite, aragonite -
small acute xls. ✓

CMRM (1995) Orpiment

1" 190

Nr. SW

738 491

Wh. BURROW AND BUTSON, St. Agnes, CornwallAKHJ (1962) 2 18-21

Large mine, long history.

Known as Wh. DAVEY in 1735.

Wh. BUTSON

shown on a 1748 map.

Known in 1834

as UNITED MINES NORTH or NORTH CONSOLS,
with Wh. ARTHUR to N e Wh. CORNWALL to S.Copper ore, sphalerite ("blende")
including metal
[? nat. copper] ✓

1" 185

SW 91 56

BURTHY CHINA CLAY WORKS, St. Ender, Cornwall.

89 56

Collins
MM 16, 31 ⁽¹⁹¹¹⁾ Cassiterite, var. wood-tin.

91 56 BURTHY MINE

Bussow M., St Ives, Corn.

See Tyringham Consols M

1" 189

SW 49 35

Wh. Busy, Boswase, Cornwall

AKHJ (1961) $\perp$ 36. Small mine, workings 1755-1764.

Wh. Busy, Redruth, Corn.

See Wh. Daniell

Wh. Butson, St. Agnes, Corn.

See Wh. Burrow & Butson

BUTTERN HILL, Altarnun, Cornwall ^{1" 186} 175817

K29

AWGK, RGSC (1952)

Plumbogummite $Pb(Al)_3(PO_4)_2(OH)_5H_2O$,

greenish-yellow.
in alluvium.

Small rounded waterworn fragments

CMRM (1995) Ilmenite (B. HILL PLACERS)

~~K~~ 95

CABILLA MINE, Warleggan, Cornwall.

See Gt. TREVEDDOE MINE (K94) SX 1569

1" 190

SW 72 14

CADGWITH, Luan Minor, Cornwall. L 9

JC (1871), 53:

Actinolite; asbestos; calcite;
chromite; diallage; hornblende;
serpentine; pyrite

CMRM (1995) Talc (DEVIL'S FRYING PAN)

GS 1" map Epidote;
Et

1" 190

Poltesco SW 72 15 ~~1110~~

CAERLEON COVE, Ruam Minor, Cornwall,

JC (1871), 53: Orthoclase in granite veins.

1" 190 CARLEON COVE SW 72 8 157

CMRM (1995) Dolomite

WHEAL CAIRN

3

Carve, str.?

Henwood: Opal. ✓

Wh. CALL, St Just, Cornwall.

See BOSWEDDEN MINE SW 35 32

1" 190

SW 77 49 or 50 (?)

GT. CALLESTOCK MINE, Ferranzabuloe, Com
See also PERRAN wh. VIRGIN

AKHJ (1962) 2 51 The sett immed. N of
PERRAN wh. VIRGIN.

OS 2½" map. "Callestick Vean" - 770 493
"Higher Callestock" - 769 499
"Callestock Veor" - 771 504
"Callestick village" - 775 503

1" 186 T. 5 x 36 69
CALLINGTON, Cornwall.

Rutley, 15th Ed., p.158, Uranium ochre; p.162,
pyrolusite "nr. Call."; p.165, rhodonite,
"nr. Call."; p.211, chalcantite "nr. Call."

BM: Chalybite

Parkinson's Cat. (1959). Arsenopyrite, coarse xline;
chalcopyrite, massive, with blende
& arsenopyrite

Cryst. Vine Cat. (7/04) Arsenolite w. xline realgar
[?slag]

1" 186

SX 35 67 K 102

CALLINGTON UNITED MINE, Callington, Cornwall

See also COLQUITE MINE (K 101), HOLMBUSH, REDMOOR,
KELLY BRAY MINES.

JC (1871), 64. COLQUITE (K) AND CALLINGTON UNITED MINE
(Cu, wkg.) Chalcopyrite.

Dunham F (1952) 118. Included HOLMBUSH, REDMOOR,
& KELLY BRAY MINES.

1" 186 or 187

WHEAL CALMADY

K 74

Callington & Tavistock area.

Henwood.

1st 188

Town SX 43 69

CALSTOCK, Cornwall.

LDS, p. 139: Torbernite "beaut. xls, nr. Calstock"

Parkinson's Cat. (1959). Azurite, minute xls in
cavities in siderite & tetrahedrite.
Tetrahedrite, massive, with siderite
and baryte.

¹⁸⁷WHEAL ^{SX}CALSTOCK, ⁴²Calstock, ⁶⁹Cornwall. ⁴¹

~~See CALSTOCK & DANESCOMBE CONSOLS (K 40); E. CALSTOCK M.~~

See little map, 4

JC (1871), 64: CALSTOCK CONSOLS: (Cu, wkg.) Chalcopyrite.

SX 4265 8930

CALSTOCK & DANESCOMBE CONSOLS

~~See wh. CALSTOCK (KHI); wh. ZION~~ Calstock, Cornwall

Little map, 6.

OS 6in map: Cu Ag mine.

K 40

1" 187

SX 4264 696

EAST CALSTOCK MINE, Calstock, Cornwall

See also Wh. CALSTOCK, etc.

OS 6in map: Cu mine

1" 189

SW 63, 64.

CAMBORNE, Cornwall

CMRM (195): Acanthiæ

1" 189

SW 64 39

CAMBORNE VEAN MINE, Camborne, Cornwall.

C

13

BM Bismuthinite, lath like metallic needles.

JC (1871), 51: (Sn, Cu, wkg.) Axinite; chalcocite;
erubescite; fluorite; hornblende.

W. Phillips (1823). Chalcocite; bornite;

1" 186

SX 10 83

CAMELFORD, Cornwall

CMRM (1995) clinozoisite;

1" (89)

SW 35 31

CAPE CORNWALL, St. Just, Cornwall

StJ 48

JC (1871) 47

Tourmaline (schore); hornblende;
actinolite.

1" 189

SW 3531

CAPE CORNWALL MINE, St. Just, Cornwall StJ 49
See also St JUST UTD, etc.

JC(1871) 47 (Sn, wkg) Dolomite; garnet; jasper.

DBB (1963) 15 Included in St JUST UTD MINES.
100 fms. deep when restarted in 1860's.

1" 189

Nr. SW 69 3 418

Wh. CAPTAIN, Redruth, Cornwall

AKHT (1962) 3 8-10. opened 1787, a little

E of some old & forgotten lodes.

= Wheal or gweal Paul[e]. Sn & Cu.

Part of EAST CARN BREA MINE

1" 186
CARADON MINE ^{St. Clear 3x261" 186 sq 26 70 5x} Liskeard, ^{common 500} GONAMENA, CRADDOCK MOOR 18

See also CARADON CONSOLS (K 85); S. CARADON (K 86); W. CARADON (K 87); GLASGOW
GLASGOW CARADON CONSOLS (K 88); Gt. CARADON (K 112); E. CARADON (K 113)

BM: Giant fluorite; vg chalcopyrite; quartz;
radiating silky malachite at S. CARADON MINE,
with lazurite and cuprite; vg azurite at
Caradon Mine; chalybite; chalcopyrite;
copper at S. Caradon Mine.

See also CARADON & PHOENIX (K 119).

Rudler (1905) 37. Chalcopyrite with calcite
88: green fluorite with quartz & chalcopyrite

BMSN (2000) 579. D. Roe: Anatase, monazite,
"sparable" cassiterite, all in chlorite from
"WH. CARADON"

1" 186

Sx 25 69, 24 70, 24 69

CARADON CONSOLS, SR. Cleer, Cornwall. K 85

See also CARADON MINES (K18) et al.

JC (1871), 63: (Cu, wkg.) Chalcopryite; cuprite

1" 186

EAST CARADON

See also CARADON

JC (1871), 64:

(Cu,

Dewey (1923) 50,
adjoining

Cu ore

1882

argen

RSWB (8/66) 5 48.

snery, pyru

SX 27 79 K 113

Linkinhorne, Cornwall.

(K18), et al.

MINES
MINES

Chalcopyrite; cuprite.

(Ag)

Look to

S. CARADON & GONAMENA MINES [90].

1860-85. Some ore in

pro

dis

forms.

Dumps at 279 702-

Li

1" 186

SX 27 79 K 113

EAST CARADON MINE, Linkinhorne, Cornwall.

See also CARADON MINES (K18), et al.

JC (1871), 64: (Cu, wkg.) Chalcopyrite; cuprite.

Dewey (1923) 50. Lodes are some of those of
adjoining S. CARADON & GONAMENA MINES [qv].
Cu ore produced 1860-85. Some ore in
1882 argentiferous.

RSWB (8/66) 5 48. Dumps at 279 702-
snergy, pyritic.

1" 186

SX 27 70 K 88

GLASGOW CARADON CONSOLS, ^{St Ive} St. Cleer, Cornwall.

See also CARADON MINES (K 18) et al., TOKENBURY,
YOLLAND CNSLS.

JC (1871), 63: (Cu, wkg.) Chalcopyrite; cuprite.

Dewey (1923) 51. = TOKENBURY & YOLLAND CONSOLS,
~~St~~ St Ive.

In decomp andalusite-schist; granite
at depth.

8 lodes & a Caunter.

A good gozzain in the MAIN LODE.

✓ Melaconite & chalcopyrite in quartz.

Cu ores produced 1864-84

1" 186

SX 29 70

GT. CARADON MINE, St. Ive, Cornwall. K 112

See also CARADON MINES (K 18), et. al.

VC(1871), 64: (Cu, wkg.) Chalcopyrite. ✓

1" 186

SX 27 75 K 119

CARADON & PHOENIX MINE, Linkinhorne, Cornwall.

See also CARADON MINES (K 18) et. al., W. PHOENIX (K 5)

JC (1871), 64: (Cu, Zn, wkg.) Blende; chalcopryite

1" 186

SX 26, 698, 2670

SOUTH CARADON MINE, St. Cleer, Cornwall (K 86)
See also CARADON MINES (K 18) et al.

JC (1871), 63: (Cu, wkg.) Chalcoite; chalcoprynite;
cuprite; fluorite.

BM: radiating silky malachite, with azurite
and cuprite; copper.

Rudler (1905) 46. Delicate green fibrous malachite.

Dewey Cu (1923) 4. Near surface, gozzan - much
limonite, with melanconite, cuprite, malachite,
azurite & nat. copper; at lower levels

chalcopyrite, bornite & chalcocite with
chloite & fluorite

p 48 ff. In granite. From S-N lodes are; KITTO'S S;
KITTO'S N; CAUNTER; JOPE'S; CLYMO'S; PEARCE'S; DOWDING'S;
MAIN; MENADUE; WEBB'S; GERALD'S. Southern
lodes worked to 250 fms below adit, N ones to
40-80 fms.

A good gozzan with much limonite, often cellular, with
melaconite, cuprite, malachite, azurite, nat. copper
In depth, chalcopyrite, bornite & chalcocite with
pyrite & arsenopyrite, chloite & fluorite.

"There were frequent vughs lined with beautiful
crystals of the ones of copper".

Output of Cu ore, 1838-85.

Truro Mus: azurite

S. CARADON MINE, ST. CLEER, Cornwall (II)

RSWB (8/65) 4 200. Vast dump-complex
around & about 265 700. Granite.
Fluorite, quartz; traces malachite,
chalcopyrite, pyrite.

B. Cooper (4/72) (Spec → RSWB 1/12/73). Woodwardite
[ident. BM] excellent spec's - rippled crusts
mostly very friable to sludgy, in adit,
portal near 264 700 (on E side of valley)

CMRM (1995) Unnamed Cu RE phosphate
SOUTH CARADON MINE ADIT, ST Cleer -
S. Weiss (1987) Lapis 12 [3], 26.

Southern Branch Weekend Fieldtrip to
Cornwall - 7-10 June 1996 RSN (1996) 29
7 June: South Caradon Mine [Grid Ref: SX
264998] Six members met at the Crow's Nest
public house for the afternoon visit to the old

Little of significance was found, but all members
found something to interest them. Native copper,
cuprite, fluorite and various secondary coppers are
always potential finds.

BMSN letter (1999) 53, 10

E. Jewson → BMS coll 2119

Woodwardite

1" 186

25 70, SX 25 69, ²⁶⁴ 699

WEST CARADON MINE, Sr. Cleer, Cornwall. K 87(I)

See also CARADON MINES (K 18) et al.

JC (1871), 63: (Cu, wkg.) chalcocite; chalcoprynite;
cuprite; copper; fluorite.

Dewey (1923) 48. In granite. 12 Cu lodes, contin. with
S. CARADON, from which separated by a great
cross-course. Started 1837

Chalcoprynite; grey copper; in peach & prian.
The MENADUE LODGE yielded some large specimens
of purple or peacock ore [? bornite].

chalcocite; bornite; tenorite; cuprite; malachite;
nat. copper; arsenoprynite; chlomite; fluorite;
quartz; felspar. Cu produced 1843-86. Worked to 187 fm

C. Rogers, Priv Comm (1965) Libethenite (IR checked, RSWB)
chrysocolla, brochantite; ?olivine, looking
like olive-green clinoclase.

RSWB (8/66) 5 48 Around 262-3 698-9
chrysocolla incl. one large lump;
quartz; malachite; ?pseudomalachite.

C. Rogers (1968): Libethenite; fluorite; chrysocolla;
malachite

J A Lawrence (1990) J. Russ Soc 3, 81-4 Maps
showing shafts, veins etc. Lodes vughy, with
well-formed quartz & fluorite xls, also

WEST CARADON MINE, St. Cleer, Cornwall (II)

chalcophyllite, bornite, tennantite, chalcocite,
nat. copper, cuprite, tenorite, malachite,
azurite, chrysocolla, arsenopyrite, pyrite.
Now a spec. from dumps has yielded
djurleite (XRD) & other as-yet unident
steel-grey copper species.

CMRM (1995) Chalcophyllite; goslarite;
spangolite;

BMS Newsl. (1996), 45 13 [R. Bell] [= clinocllore]
spangolite, paranite - Ripidolite,
shaft [~ 258 698?] - all from Halletts

RSN (195) 27

West Caradon Mine dumps, St Cleer
[Grid Ref: SX 263 699] - 5 June 1995

We were now down to three members - Gwyn Billington, Steve Plant and the author. The dumps of the West and South Caradon Mines seem at first glance to be barren, though very extensive. A closer, more dedicated investigation reveals the occasional 'find'. Steve soon found cuprite and other copper minerals. I found some cuprite with small amounts of native copper. Samples examined at home included one that made my day - only micro-size, but some beautiful crystals of a rich greeny-blue and hexagonal when reflecting light. These are chalcophyllite. Clearly, there is still potential at West Caradon Mine.

BMS Coll 2273 Goethite

RSWB 99-130, BMS Sympos.

Bismutite, off-white
needles on quartz
chlorite.

1" 189 SW 5238, 5239, 5338
CARBIS BAY nr St. Ives, Cornwall.
See also Wh. PROVIDENCE; E. PROVIDENCE.

Rudler (1905) 46 green Cu carbonate of recent
formation assoc. with shelly sand.
(cf Wh. Leisure, nr Perranzabuloe).

Bull GS 10 74 (1955) Pitchblende in pebble bed
at high water mark

CMRM (1995) Corundum, var. "sapphire" (C-BAY SANDS);
xenotime-(Y) (in BEACH SAND); zircon

CARCLASE MINE, St. Austell, Cornwall 1" 186, 190 02, 54x SX SA 3

Shown on RSWB's Cornwall map "Rundell's Cornwall" (v. old!)

JC (1871) 60: (Sn, Kaolin, wkg.) Cassiterite; galena;
gilbertite; kaolin; schorl

C Rogers (1968). Chloropal [Nontronite]

CMRM (1995) Opal (CARCLASE PIT); tourmaline.

1" 185, 190, 186

SX 01, 02 - 54, 55

WEST CARCLAZE China Clay Pit, St Austell, Cornwall.

C.V. Smal (1973) Gems 5 [5], 2-5.
Opal.

RSWB (8/91) Found that Carclaze to Stenalees road now cut off at SX 017 548, N of which are newly bulldozed dumps with large lumps of granite etc presumably from the tips of WEST CARCLAZE PIT. Examined S edge of dumps near 017 549. Granite some with large feldspar (oid) xls embedded. Quartz, some rough veins with crystals to ~ 3cm. Tourmaline (schorlite) common in veins and

patches. In one boulder a tourmaline-quartz vein broken open revealed vugs with brown radiating spherules cacoenite (IR) and a few tiny pale green pointed crystals $\Lambda \Lambda$ ~~W~~ of

1" 186

SX 136 655

CARDINHAM MINE, Cardinham, Cornwall.

AKHJ (1966) 12, 9 CARDINHAM MINE = EAST

JANE M after 1862. On N side of
river. Lead ore, (19-90 oz Ag/ton). Galena
soft spar, siderite

1" 190 (M)

SW 70 44 (M)

CARDREW DOWNS MINE, Redruth, Cornwall

AKHJ (1962) 3 29, Mentioned, with TRELEIGH
WOOD M. & others.

1" 190
CARDREW DOWNS, ^{34 70 44} Redruth, Cornwall **R** 33

Henwood.

JC (1871), 52: Chloite; fluorite; limonite;
melaconite.

CARGODNA MINE, St Just, Cornwall.

See W. Wh. OWLES

1" 190 83₂ 54₀ SW
CARGOLL MINE, Newlyn East, Cornwall

A 8

Shown on GR's $1\frac{1}{2}$ " Cornwall map. ca $1\frac{1}{2}$ ml S of Newlyn East.

AWGK, RGSC (1952). Francolite, with chalybite. ✓

JC (1871), 59: (Pb^{Ag}, wkg.) Blende; chalcopryrite;
galena; marcasite. ✓

1" 190

CARHARRACK MINE, SW 73 41 Sh. Day, Cornwall R 26

See also SE DAY LTD, etc., Wm MAID; CONSOLIDATED M's.

BM: vq chalcophyllite, on dark limonitic matrix;
pharmacosiderite, with scorodite, and also
in brown cubes; olivenite.

Henwood: Autunite or Torbernite ("uranite")

TMH (1868) 37: Autunite; axinite; bitumen; bornite;
chalchotrichite; azurite; chrysocolla;
connellite; copper; azurite; garner;
malachite; olivenite; petroleum;
pharmacosiderite; schore; scorodite;
torbernite; chalcopryrite; uranochre.

Rueder (1905) 48, Referring to G&L (1858) - "In Mr. Turner's collection there is a specimen [δ connellite] stated in the catalogue to be from Carharrack, in St. Davy."

Dewey (1923) 32 Cu ores produced: "MAID & CARHARRACK"
1821-36, 1845-52. p35 Part of CONSOLIDATED M's.

W. Phillips (1823) Pharmacosiderite, sparingly; "uranite";
fibrous malachite; olivenite; cuprite.
Azurite, sparingly.

Truro Mus: Azurite; clinoclase; chalcophyllite

CMRM (1995) Zippelite

CARLEEN MINE, Breage, Cornwall.

See also Wh. METAL, Wh. VOR etc
Henwood = W part of Wh. VOR (Wh METAL).
See Wh VOR

CARLEON BAY, Ruan Minor, Lizard, Cornw.

See POLTESCO

Carlyon M., St. Austell, Corn.

See Crinnis M.

Carnarthen Consols M, Illogan, Corn.

See S. Dolcoath M.

Carnath M., St Ewe, Cornwall

See Wh. Chance.

1"

CARN BARROW, Lizard,

SW 718 139
Corn.

CMRM (1995) Analtime

Corn Galver M, Morvah, Corn

See Morvah Utd M

1¹¹ 189

SW 3630 3730

CARN BOSAVERN, St Just, Cornwall.

StJ 51

JC(1871) 47:

Lepidomelane.

CARN BREA, ^{SW 64} Illogan, ^{1" 189 68 x 41} Cornwall ^{SW(I)} C 5

See also S. CARN BREA (C 32); E. CARN BREA (R 43); E. POOL M.
BARNCOOSE LEVEL

Bismuthinite; fluorite; bornite; chalcocite.

BM. Blue green fluorite; bornite, irid. aggreg., rod like;
chalybite; chalcopyrite;

Rutley, 15th Ed., p 179, cassiterite; p 180, stannite;
p. 195, arsenopyrite; p. 205, copper; p. 206, cuprite;

RSUB 1959 Loc 130 See Field report. Brochantite. ~~blue cu~~
~~mines (cassiterite??)~~, arsenopyrite, connellite

JC (1871), 51: (Cu, Sn, wkg.) agate; cassiterite;
chalybite; chalcocite; chlorite;

conduvite; copper; covellite; cuprite;
erubescite; fluorite; goethite; haematite;
limonite; mica; marcasite; arsenopyrite;
pharmacosiderite; pyrite; rock xl.;
stannite; tennantite; wolfram; smectite?

Rayner Cat. (1960) Fluorite, with chalcopysite

Rudler (1905) 20. Stannite, 30. Wolframite
39. Bornite 14. Cassiterite & after feldspar

MM II 266 chlorite & after arsenopyrite

Dewey (1923) Included in E. POOL & AGAR [See E. POOL M.]
158,200 tons Cu ore sold 1833-1905.

CARN BREA, Illogan, Cornwall (II)

C. Rogers (1968): CARN BREA MINES; Tourmaline;
haematite; quartz Hs; amethyst; fluorite;
chalcoprysite; chalcocite; malachite;
blue & green Cu minerals; ~~Ag~~

CMRM (1995) Tyrolite (CARN BREA MINE)

1" 189

SW 69 41

R 43

EAST CARN BREA MINE, Redruth, Cornwall

See also CARN BREA (C 5); S. CARN BREA (C 32)

JC (1871), 52 (Cu, wkg.) Chalcopyrite.

1st 189

SW 68 40

C 32

SOUTH CARN BREA MINE, Illogan, Cornwall.

See also CARN BREA (C5); E. CARN BREA (R43)

JC (1871), 52. (Sn, Cu, wkg.) Chalcopyrite; cassiterite

1" 185

SW 9 5 (?)

CARN BRECON, St. Mewan, Cornwall. SA 50

SW 99 51

✓ JC (1871) 60 Cassiterite; gold; silver.

(St Mewan vill, SW 99 51) Partsh mainly to New
of village.

1" 189

SW 38 33

StJ. 50

Wh. CARNE, St. Just, Cornwall
of Wh CARNE of Wh SPERRIS & SANDWICH, Towardack

JC (1871) 47

Axinite; isopyre, in masses of several inches
in length, in granite, assoc. w. cassiterite
& tourmaline (p. 58); prehnite; stilbite;
natrolite;

TMH (1868) 44

Axinite, isopyre, natrolite,
prehnite, stilbite &

CMRM (1995) Opal

Wh Carne, Towednack, Corn

See Wh. Spetris e Sandwich

1" 189 SW 44 38 y
SE
CARNELLON MINE Zennor, Cornwall. St. 68
See also ZENNOR ~~CONSOLS~~ M's.

JC(1871), 48: (Cu, Sn; wkg) Occas. fine xls of cassiterite.

DBB(1963) 11 Notable for recent efforts to
secure permission to reopen.

GC Goodridge, Geog Mag (1967) 686. Being re-evaluated

AKHJ (1961) 1 Part of ZENNOR CONSOLS in 1851
but separate in 1862. In places, slabs
of almost clean cassiterite

1" 189 SW 41 35 42 36
CARN GALVER MINE, Morvah, Cornwall

See also MORVAH UNITED MINE

DBB (1963) 11. Ruins by road, shaft 130 fms deep.

Part of MORVAH UTD.

1" 189 SW 42, 365, 4135

CARN GALVER (= ROSEMERGY) M., Morvah, Cornwall

See also MORVAH UTD. M.

AKHJ (1961) ⊥ Part of MORV. UTD. M. A deep
adit started S from cliffs in 1851; air
v. foul, but extended $\frac{1}{2}$ ml. to ~~of~~ main
shaft in 1869.

189

SW 62, 52, 53, 637

CARN GREY, Breage, Cornwall

CMM (1995) Nontronite

1" 189

SW 35 31

CARN GLOOSE, St. Just, Cornwall

old card?

CMRM (1995) Quartz ("citrine")

CARNMEAL (=DOLGA) MINE, St. Agnes, Cornw.

See POLBERRO M.

1" 189

SW 63 29

CARNMEAL SITHNEY; Sithney, Cornwall, M. 62

JC (1871), 55: (Sn) Cassiterite; pyrite.

1" 189 [190]

Cent on SW 69 36

CARNMENELLIS

Cornwall

CMRM (1975) Monazite-(Ce), as accessory
in CARNMENELLIS granite; Xenotime-(Y)
inclusions in biotite in CARNMENELLIS
granite, also zircon as accessory (micro-).

1" 190

SW 7 3

CARNON [STREAM WORKS] Feock, Cornwall. R. 68

JC (1871), 59: Cassitende, gold. [C. STREAM WORKS]

Rudler (1905) 18 gold. [C. STREAM WORKS]

CMRM (1995) Nat sulphur (CARNON VALLEY)

1" 189

SW 4

23

CARN SILVER, St. Burian, Cornwall.

SE-J 40

JC(1871) 47

Epidote.

(Old) Dana, 529 Axinite ("Carn Silver, near
Lamorran Creek").

[Lamorran (Creek), SW 8741, is in Roseland
- it is an unlikely locality. Probable
confusion with LAMORNA COVE]

Carn Stabba, St Ives, Cornwall

See Wh. Trenwith

1" 189 SW 372335

SHJ

25

CARNYORTH MINE, St. Just, Cornwall

~~See also BOTALLACK MINE~~

Sn Mine

JC (1871) 47. See BOTALLACK MINE, (SEJ 9).

1" 190

SW 729 284

Wh. CAROLINE, Constantine, Cornwall
See also CONSTANTINE

Rev. V. Holyer, Priv. Comm. (9/89). (For permiss. see
James Bray in new bungalow ~~at~~ at 728 289).
Small cassiterite xls; wolframite;
chalcopyrite; in quartz.

1st 189

SW 543 304

Wh. CAROLINE, Perranuthnoe, Cornwall.

Dacey (1923) Cu ore 1826-31

AKHJ (1962) 4, 34. A branch of the Wh. NEPTUNE
adit extended N, to just S of Goldsithney
village, where a fine lode of copper [ore]
in gozzan intersected — Wh. CAROLINE.

Dines (1956) 1 180. Cu lode. Wh. VERRANT nearby
or part of it, gave black tin [cassiterite]

1" 185

SW 96 54

CARPALLA CLAY WORKS, Foxhole, St. Austell,
Cornwall.

Quarries (1963-4). Working, ~~slay~~.

1" 189
WHEAL CARPENTER, Gwinear,
~~Algarve~~
See also W. KAYLE
2½" SW53
587½ 352½
Cornwall

(I)

H 22

Spec. Min. Res. Rep. 21: Cu mine, minor Pb/Zn.

AR.: Bayldonite; cornwallite; cornubite.

LSWB. Bayldonite, on qtz; malachite "Kingsburian Paradise" green
Loc 132 with Cu mins.
(1959)

AWGK (1951) Bayldonite.

Pseudomalachite. ✓

MM 32 1 (1959) well-crystallised quartz coated
with dark-green fibrous cornwallite on

which are apple-green patches of botryoidal
fibrous cornubite

Dines (1956) 167.

Said to have produced

Cu ore, some blende & a little Sn

& Ag ore in the 1850's

JRK Riv Comm 10/69 G. Lane found good xls Linacite here

AWGK MM 32 431

Pseudantite, carminite, bayldonite.

AKHJ (1963) 5, 9 ff.

continuation

Copper ore.

An adit, a

of the Wh. TREMAYNE adit

on a lode of spar, copper ore, & gozzan.

Copper, silver, & tin ores.

RSWB (8/65) 4 208

Bayldonite, pseudomalachite, malachite, quartz

Wh. CARPENTER, Gwinear, Cornwall (II)

MGHM Spec → RswB 6/95. Quartz with
malachite & pale green micro
needles in ~~brushes~~ giving FTIR
near mixite [no good agardite standard
available] (BUT - diss. in dil'd HCl, thiourea added
→ yellow colour (∴ Bi) but paler than with
a Wittichen mixite [larger sample?], BUT MGHM
reports that an EDAX scan ~~gives~~ shows
only Cu & Ag, with NO Bi or RE's !)

Mixite-agardite intermed. or something else?
(IR NOT = olivenite or strashimirite). XRD = Mixite (D. green).

RswB 20/7/95. Smallish partly overgrown

clumps on field boundaries near SW 5867, 352-3
have a little bayldonite, nothing else noticed.
In crop field at SW 586 3515 nearer
road, blocks of quartz matrix gave
much chrysocolla, some malachite, quite
common bayldonite; translucent deep
green crusts phosphatian cornwallite (IR);
tiny "diopase green" xls pseudomalachite -
cornwallite intermediate (vib; FTIR)
one spec had tiny brushes ^{presumably} of the ? mixite.
chlorite, goethite.

CMRM(1995) "Adamite"; anglesite; mimetite; mixite;
philipsburgite; plumbogjarosite;

Wh. CARPENTER, Gwinnear, Cornwall (III).

BMS Newsl. (1997) 47, 3; Coll: Agardite-(Ce) (D. Green)

RSWB et al (2009) J. Russ. Soc. 12, 3-9.

AWGK's "adamite" discredited. Zincolivenite

Andersen & Moulding (2009) J. Russ. Soc. 12, 10-14
Details of zoned zincolivenite xls

1" 189 SW 512 409
CARRICK DU MINE, St. Ives, Cornwall 50 41

H₂

AR Min. Mag. 15 378 (1910): Heulandite

(See D. Clough, BMS Newsletter. 68 (2004), 10-11)

Dines (1956), 110.

On Carrick Du headland,

1/2 ml W of St Ives harbour. Worked in
1850's from two shafts; a Sn/Cu lode
in metamorphosed killas & greenstone

MPC ? Rhodochorosite xls. erythrite, langite,
dolomite, ? ankerite or siderite, quartz,
chlorite, ? scheelite, aspy, a little guppy

C. Rogers (1968) Quartz; dolomite xls; chalcocite;
arsenopyrite; erythrite Carrick Ddu
headland: - arsenopyrite, hornblende, schorl,
axinite, actinolite.

AKHJ 1, 22 (1961). = CARTHEW MINE. "grey, black, &
yellow Cu ore also tm & gozzan, with mundic
in abundance". i.e. Chalcocite; melanconite,
chalcopyrite, cassiterite, pyrite.

CAR SIZE M's, gwiner, Corn

See CARZISE MINES (W. & CONSOLS)

CARTHEW MINE, St Ives, Cornwall

See CARRICK DU MINE

1" 189 ? Nr. SW 69₂ 42,
CARTHEW'S SHAFT, ~~near~~ Redruth, Cornwall.

AKHJ (1962) 3 12. In swampy meadow beyond
Baewey Leat. [? nr SW 69₂ 42.]. Served by
adit from N.

CAR^B~~Z~~^ZISE CONSOLS, Gwinear

H 44

Henwood.

JC (1871), 50 "CAR SIZE CONSOLS," Blende;
essite; chalcopryite; arsenopyrite

CAR ZISE	SW	595	342
W. CAR ZISE	SW	588	341

1" 1805

SX 02 51

SA 55

CARVATH UNITED MINE, St. Austell, Cornwall.

JC (1871), 60: (Cu, Sn). Chalcocite; cuprite.

W. Phillips (1823) Cuprite ("SPEED & CARVATH, St. Ives")?

1st 189
WHEAL CASTLE, St. Just, Cornwall

2¹/₂" SW 33

356323

STJ 12

"HUEL CASTLE"

See also BOSWEDDEN MINE etc.

Rutley's "Mineralogy" — Beryl

Gregg & Letson. Manual of Mineralogy of GB & Ireland, p126 (1858)

Later, with Wh WILLIAMS, formed BOSWEDDEN MINE

Visited Aug 1959. RS WB.

pinns, on goethite.

Loc 135.

chalybite.

Apatite,

(Is this g. Bowness' loc??).

good xls.

Cliffs Opposite Wh. Castle.

R8WB 8/59

Quartz veins with big xls

black tourmaline

JC (1871) 47 BOSWEDDAN & WH. CASTLE (Sn, whg). Beryl at
Wh. Castle.

GeL (1858) 126, 108, 452.

Beryl amorphous. Felspar good xls in slate-rocks
nr Wh. Castle. Felspar xls, "Huel Castle".

C. Rogers (1968): Beryl; "goslarite garnet" ~~¶~~
[presumably grossularite!]

MGH Merry Priv Comm, samples → RSWB for ident 3/11.
Brown siderite clusters of curved xls. Some
thin white crusts & flattened micro-rhomb,
calcite (FTIR 5/11) [875, 716, 2360]

1" 185 SW 947 628
CASTLE-and-DINAS MINE, St. Columb Major, Cornwall (A) 2

Wolfram mine, Visited by GR. (P.T.O.)

AR Min Mag 28, 353 (1948). Rashleighite, cacoxenite.

~~MM 27, 1~~ Gold (lower down!)

BM: Löllingite, with wolframite; cacoxenite, yellow
sphenoids $\text{Fe}^{III}(\text{PO}_4)_3(\text{OH})_3 \cdot 12\text{H}_2\text{O}$ with rashleighite,
light blue-green or green micro-botryoidal;

geology: Geol. Mag. 57 (1920)

Mineralisation: Trans Inst Mining 61 (1952)

Good description: AR, "loc cit, (1948)" [or with MM? RSWB]

AR. MM 2541 (1938) Russellite. MM 27, 2, (1944) Gold on russellite

PGEMM 30 261 (1953) Löllingite. of Robson Trans RGSC (1948) 17 456; (1946) 17 347

Davison, RGSC (1919) —

MM 25, xlii. Exhibits: Topaz; cassiterite; aspy/löllingite; bismuth;
turquoise; russellite; scorodite, on wavellite. (white, $\rightarrow 1\frac{1}{2}$ cm)

GR, June 155 New shaft descends to recent No 8 level; material
sent by aerial ropeway to sorting mills beside old shaft.

Löllingite in large masses from a stope below No 7 level, assoc.
w. wolfram. Some wolfram in qtz & one specimen
rashleighite from tip outside mills. Also wolfram
on dumps round New shaft. ? gilbertite & scorodite assoc. w. them
Cassiterite rare, Cu & cuprite v rare; psilomelane, rare; Bismuth
and bismuthinite (in jig concentrates only); zinnwaldite on wolfram

Rayners Cat (1960) Löllingite; Liroconite ^{←?} + scorodite + quartz.

MM 21 (1926) AR: Wolframite, wavellite, scorodite

p 221. Topaz
C. Rogers (1968): Topaz; wolfram; Löllingite; wavellite; gold.

CASTLE-AN-DINAS MINE, St. Columb Major, Corn. (II)

RWB 8/92. Topaz in quartz with
tourmaline (?schorl) & muscovite.
specular haematite mass of small
crystals.

CMRM (1995) Phlogopite

1" 190

Basveal SW 71 41

CATHEDRAL MINE, Nr. St. Day, Cornw.

Adjacent to N & W. DAMSEL M's [q.v.]

BMS Newsl. (2001), 60; 6, 8. Robin Selley, coll 1999, MM
of chalcophyllite on olivenite, with
brochantite and scorodite.

Roger Eslick et al :- "superlative" bismuthinite.
On dumps being ~~no~~ removed.

Dines I (1956) 397-8 1 ml SW of St. Day. Active

1827-1842 1866, 1874-1885. ~~Colonel's~~ COLONEL'S SH

200 y S by E of Gwennap Pit. ~~Atter~~ Quartz,
chalcopyr, fluorite, cassiterite, some green
& blue Carbonate ores; fragments of gray
elvan w. large felspar xls.

R. Selley & R. Eslick (2004) BMSN 68, 13-14. Orig. known as
JENGENTER, re-named after Gwennap Pit 200 yds away.
worked 1827-~1885. Qtz lodes w cassit, chalcopy,
fluor. In 1999 dump examined. Qtz incl ameth
& smoky, pharm'sid, torbern, cuprite, chalcocite,
chalcophyllite, bismuthinite, Cu₂P, xline fluor,
scorod, langite, opal, chlorite. » cebs 1015mm
Bismuthinite needles to ~4 cm & irid masses in
qtz cavs. Arsenopy, broch, cassit, connellite,
nat copper, casts after dolom, goeth, haem, malachite,
marcas, olivenite, posnjak, pyrite, spots galena
& sphal.

1" 185

SX 05

CAUDLE DOWN, Str. Austell, Cornwall.

Rudler (1905) Orthocladia, var. *sanidine*.

SX 00 57 South Caudledown Pit

SX 01 57 NEW CAUDLEDOWN PIT

1"189

SW

505 351

Wh. CHANCE, Ludgvan, Cornwall.

AKHT (1961) 1 43 GOLDEN BANK e Wh. CHANCE
working 1837, "dissolved" 1845.

[TMH (1868) 51 Wh. CHANCE, Towednack —
Annabergite, ~~chalybite~~, millerite,
niccolite, waverite. — almost certainly
the St Ewe Wh. Chance.]

1" 190

SW 722 441

Wh. CHANCE, Redruth, Cornwall.

AKHJ (1962) 3 29 Mentioned

DBB, W. Cornwall (1963). On site of present
Scorner Station. [ie 722 441]. Worked for
a time with TRESKERRY M.

Pengelly 965495 1" 190 SW 0745 SW 94
WHEAL CHANCE, St. Ewe, Cornwall SA 30
See also PENGELLY MINE (SA 49)

Rutley, 15th. Ed., p. 202, Niccolite, p. 203, millerite (Ni pyr.).

Collins (1871) p 60. Working. Annabergite; chalybite; millerite;
niccolite.

TMH (1868), p 51. Wh. CHANCE, ^{SW 4838.} TOWEDNACK (!): Annabergite;
niccolite; millerite; cowellite.

W. Phillips (1823). Wh. CHANCE nr. ST. AUSTELL (!) "Native
nickel" [capillary diverging, yellow-steel grey-
- prob. millerite] in cavs. of niccolite.
e annabergite.

Dines (1956) 546 = CARNATH MINE, near ST. AUSTELL
CONSOLS. Precise loc unknown. Has yielded
nickel sulphides and arsenates [?] assoc.
with siderite & wavellite - De La Beche, (1839),
p615. Started 1807 for Cu, unsucc.
Reopened 1853; Black tin obtained [cassiterite].

Not mentioned in AKHJ (1964) 8

1" 185

SX 08 55

Wh. CHANCE, Tywardreath, Cornwall

See also FOWEY CONSOLS, etc.

Dewey (1923) 42. Included in FOWEY CNSLS.

1" 190, 185

SW 70 47 (2)

Wh. CHARLES, St. Agnes, Cornwall.

See also Wh. GERTRUDE

Dewey (1923) 19. Cu ore produced 1821-1834

BM: "Wh CHARLES, Cornwall", Native silver. ✓

WHEAL CHARLES, Cornwall

5

BM: Silver. ? wh Charles, St Agnes. [qv]

1" 185 SX 04 52
CHARLESTOWN MINE, St. Austell, SA 27
Cornwall

Henwood.

JC (1871), 60: CHARLESTOWN UNITED MINES (Sn, Cu, Wkg.)
Actinolite; cassiterite; chalybite;
limonite; serpentine?

CHARLESTOWN UNITED MINES, St. Austell, Cornwall.

See ~~also~~ CHARLESTOWN MINE

1/189
WHEAL CHARLOTTE, SW 697 492
St. Agnes, Cornwall ~~A~~ 18
~~See also N. TOWAN M. (?)~~ ~~(I)~~

Henwood: Cuprite ✓

JC (1871), 57: (Cu, 10kg). Cassiterite

Dewey (1923) 19 Cu ore produced 1820-56

V.T. Rae spec → RSWB for ident 1/88.

Sky-blue radiating "star like" on quartz
with chalcocypsite islands in grey-met
flaky looking fairly sectile? chalocite or botrite ✓

Sky blue; IR weak but near cyano-trichite
Some green stains

VTR pres RSWB 8/90 Nice sheets of native

copper bordering quartz veinlet
in matrix from dumps (N. part,
near 698 492)

BMSN (2000) 57 8. Connellite. from "Wh. Charlotte"
(WHICH?)

BMSN (107) 74 16 Rutile in chlorite cav

"CHARL. UNCTED".

S. Rust et al (107) UKJMM 38 7-8. Bechererite
from TREVERMAN'S sh, on N. VEIN at
5358 2979. Qtz-chlorite w, arspy; cassit,
sphal, py, cel py, galena. The becherer
is in micrometre xls as dense white to pale
blue crust. - trig, horiz. striated.

Wh CHARLOTTE, St. Agnes, Cornwall (II)

M. Merry 8/11. Spec's $\rightarrow$ RSWB for ident. Brochantite
bar-shaped u-xls (FTIR); chalcoculmrite
white to pale greenish to brown-stained
(FTIR) spherules, radiating.

D.B. Barton (1963) "A Guide to the mines of W. Cornwall"
p.43. "GREAT Wh. CH." exploited a Cu lode from
1820-1850. To 82 fathoms, levels to a short
distance beneath sea.

(AKHJ (1962) 11, 13-14 N. TOWN (gozzany) reopened in
1830s as NEW CHARL. and in 1877 as CH. UNITED
after Wh CH. to the N. [NOTHING MORE])

Dines (1956) (I) pp 43, 478-9. Only Cu ore listed.

In metam. Killas. Details of shafts, levels etc
some to under sea. Adit & ~~ore~~ lode in
cliffs. Recorded output 2800 tons of $7\frac{1}{2}\%$
Cu ore 1934-6, 1940.

11189
e u t d.

SW 537 296

Wh. CHARLOTTE, Perranuthnoe, Cornwall.

DBB "W. Corn" (1963) 22 Worked < 1850, Cu mine ✓

BMSN ('07) 74, 16 "Ch. u t d, Perranuthnoe"
Anatase in chlorite cavs.

S. Rust et al ('07) UKJMM 38, 7-8. Bechererite,
white → pale blue crust of ~10 μ m trig, horiz
stratified xls, from TREVELYAN'S Sh. on
NORTH V., at 5358 2979. Qtz-chlorite
w. aspy, cassit, sphal, pyr, cupy, galena.

R. Selley ('09) BMSN 78, 19-20. Quartz; damp-growth

SA 69

~~KNIGHTON MINE, St Austell, Cornwall.~~~~See RUBY & KNIGHTON MINE (SA 68)~~

brochantite, arsenopyrite, micro-sparable
cassiterite, ~~some~~ platy anatase, galena,
sphalerite, pyromorphite, cerussite,
bagdikianite, chlorite, ? cyanostrichite,
azurite, apatite, brookite, cuprite, copper,
chalcophyllite, chalcedony, chalcocite,
conellite, delafossite, dolomite, filiform
pyrite, pyrrhotite, pharmacos, scorodite,
sulphur, jeanbandyite, linarite, marcasite,
malachite, monazite, & unidents.

 ↑
 V.S. 1.D.
 ↓

CHARLOTTE UNITED MINE, St. Agnes, Cornw.

See N. TOWAN M.

1" 190

CHASEWATER,

Cornwall.

Village SW 74 44

Parkinson's Cat. (1959).

Wolframite, broad

black blades in quartz.

Arsenopyrite

coarse xline.

1st 190
CHASEWATER MINE, ^{SW 7 4} Redruth, Cornwall R 34

Henwood

(= Wh Busy? or Wh Daniell?)

CHEESEWRING QUARRY, Linkinhorne, nr Liskeard, Cornwall K 4

AR, Min Mag 16, 55 (1911) Phenakite, on chloritic crust among debris on E side of q'y, w qtz, pale violet fluorite occas bertrandites, in a joint in coarse muscovite-tourmaline granite

AWGX, RGSC (1952) Several good specs phenakite, one 2 cm long! several nearly 1 cm! But only small ones terminated.
Bertrandite, the other beryllium silicate.

AR. Min Mag. 16, 47, (1911) Bertrandite  "strongly pyroelectric; and when hot, sticks to the fingers" also anatase; torbernite; orthoclase xls (like adularia), violet fluorite;
Nearby: Autunite xls with fluorite in a joint.

BM Danburite? small, matrix-free colourless prism; milairite, colourless prism.
BM 1958, 79 Pres AWGX ~~are~~ DOUBTFUL [J. Russ Soc (2001), 7(2) 90-91.]

Bowman, MM 16 47 (1911) Bertrandite. AR, MM 17 15 (1913) Bertrandite

CMRM (1995) Durangite; sillimanite;

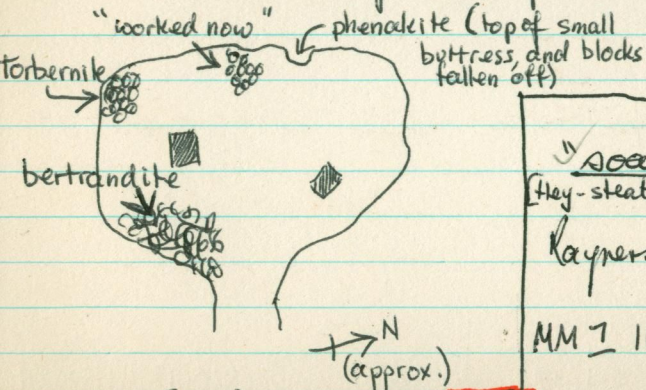
Penzance Mus: good specimen Autunite.

GR June 1955

"A bad year!" - GR

Two sets of joints -

the EW often have torbernite, as well as qtz & fluorite
At certain places platelets of bertrandite & striated
colourless prisms phenakite found among this qtz.



JC (1871), 63: Actinolite;
asbestos; orthoclase;

"soapstone"? schorl
[Hely-saenite or saponite]

Rayners Cat. (1960) Autunite.

MM 7 161 (1887) Granite with
andalusite

UKI MM (1996) 16 13-15
Stolzite

1" 190

SW 74, 75, 84, 85. 797 512
7.2 50

CHIVERTON MINES, Perranzabuloe, Cornwall. A. 47

See also: W. CHIVERTON (A 17); E. CHIVERTON (A 49); CHIVERTON MOOR (A 50); NEW CHIVERTON (A 51); CHIVERTON NEW CONSOLS (A 53); Gt. S. CHIVERTON (A 55); CHIVERTON LTD. (A 56); CHIVERTON VALLEY (A 57); Gt. W. CHIVERTON (A 46); ROSE & CHIVERTON (A 75):

JC (1871), 58 CHIVERTON (OLD CORNUBIAN [A 48]): ^(wkg) (Pb Ag) galena.

CMRM (1995) Nat. arsenic; Fe-sphalerite ("GREAT WHEAL CHIVERTON")

1" 190

~SW 80 51

A 49

EAST CHIVERTON MINE, Pentanzabuloe, Cornwall.

See also CHIVERTON (A 47) et al.

JC (1871), 58: (Pb Ag) (wkg) Galena.

1" 190

SW 792 501 A 55

GT. SOUTH CHIVERTON MINE, Perranzabuloe, Cornwall.

See also CHIVERTON (A 47) et al.

JC (1871), 58: (Pb, wkg) Blende; chalcopysite;
dolomite; galena.

1" 190

SW 347 ⁴⁸ ~~495~~

Get. W. CHIVERTON MINE, St. Agnes, Cornwall. A 46

See also W. CHIVERTON (A 17); CHIVERTON (A 47) et al.
(NOT =)

JC (1871), 57: (pb, wkg). galena.

AKHJ (1962) 2 49 Shaft & several adits.

NOT = W. Chiverton mine. A shaft to 11 fm
below adit in 1864 then cut giant vein
which flooded the mine. Re-tuned 1869
with steam engine. 7 loads with small
amounts silver-lead ore. Re-tuned 1883

1" 190

SW 785 503 A 50

CHIVERTON MOOR MINE, Perranzabuloe, Cornwall.

See also CHIVERTON (A 47) et al.

JC (1871), 58: (Pb Ag, wkg). galena

NEW CHIVERTON MINE, Penzance, Cornwall.

See also CHIVERTON (A 47) et al.

(A 52)

JC (1871), 58 NEW CHIVERTON (WH. ANNA) (Cu, Pb, Zn, wkg.)
blende; cerussite; chalcopryite;
galena

1" 190

SW 776 529 A 53

NEW CHIVERTON CONSOLS, Penzance, Cornwall.

See also CHIVERTON (A 47) et al.

JC (1871), 58: NEW CHIVERTON CONSOLS (BUDNICK CONSOLS [A 54])
(Pb, Zn, Sn, wkg). blende; cassiterite,
chalcopyrite; galena; pyrite.

1" 190

SW 772 493

A 56

CHIVERTON UNITED MINE, Perranzabuloe, Cornwall

See ~~also~~ CHIVERTON (A 47) ~~also~~ PERRAN WH. VIRGIN

SS (N) (Pb, alk.) galena

1" 190

SW 783 501 A 57

CHIVERTON VALLEY MINE, Penzance, Cornwall.

See also CHIVERTON (A 47) et al.

JC (1871), 58 (Pb, ^{Ag} wkg.) Galena!

1" 190 SW 792 508
WEST CHIVERTON MINE, Perranzabuloe, Cornwall 7

1 ml 7 flgs W of St. Allen.
NOT = Gr. W. CHIVERTON M

See also CHIVERTON (A 47)
etal!

Spec. Rep. Min. Res. Rep. 21. Pb/Zn mine

→ (A 46)

JC (1871) 57: Gr. W. CHIVERTON. (Pb, wkg). galena ✓

58. W. CHIVERTON (Pb, Zn) (wkg). blende; galena;
chalcopryite.

CMRM (1995) Anglesite; dolomite;

1" 185

SW 801 611

CHIVERTON WHEAL ROSE, Newquay, Cornwall

See also NEWQUAY etc; cf CHIVERTON M., Pertzabubbe
etc. Various Wh. ROSES. NOT =

ROSE & CHIVERTON M, SW 81 53

AKHJ

"Chiverton Wh. Rose" at 801 611

1" 189

SW 5 22 or 3

Wh. CHRISTOPHER, Germoe, Cornwall. M 59

JC (1871) 55 (Sn) Cassiterite; mica; orthoclase.

1" 189

~ SW 661 203

CHURCH COVE, Gunwalloe, Lizard, Cornwall

MA 15 256 Fibrous saponite

1"

CHYANDOUR

Cornwall

(Not in OS gazz)

CMRM (1995) Augite

1" 189

SW 33?

CHY CORNISH CARN, St. Just, Cornwall.

CMRM: Almandine
(1995)

1" 190

SW 78 17

CHYNHALLS POINT, St Keverne, Lizard, Cornwall

MM 15 382 Natrolite ✓

AF Seager, MM (1969) 285, 147 - mentions long-known
occurrence of natrolite from Chynhalls
Cliff, S of Coverack (not nearly as good
as that from Dean quarry).

1" 185

SW 91 56

CHYTANE MINE, St. Ender, Cornwall. SA 31

JC(1871), 59: (Sn & china clay, wkg.). Cassiterite; Kaolin.

1" 190

SW 74 35

CHYWOON Q., St. Gluvias, Cornwall

"Chywoon" SW 7435

BMSN (2002) 62, 4 Auction of N. Talbott's Coll.
included spec's from "CHYWOON Q., LONGDOWNS,
CORNWALL": - Apatite xls (to value of £150!)
orthoclase, albite, fluorites (to £170!).

D. Moulding, J. Hooper (2005) UKJMM 26, 5 - 22.

Details, v.g. photos etc. Now working, large, at
748 347. Worked 1840 → 1918, 1961 →. Vg pegm
pockets. Albite → > 2cm, fluorapatite
v.g., oft blue occas purple, gemmy → ~1cm;

arsenopyr $\rightarrow$ 5 mm, actunite $<$ 1 mm, bertrandite
v.g., $\rightarrow$ 4 mm; calcite, ferro- & mangan-
columbite. Vg fluorites, octa, cub, cub-oct,
various colours - purple, green, silver (octah)!
 $\sim$ 1 cm, occas $\rightarrow$ 2 cm; orthoclase, microcline,
~~sanid~~ o'dase $\rightarrow$ $\sim$ 10 cm; laumontite,
lepidolite, molybdenite, muscov, pyrite,
quartz, c'ers, pale smoky $\rightarrow$ $\sim$ 8 cm;
sphalerite, stibite, torkern (or meta-)
 $<$ 0.2 mm. schorlite, prism $\rightarrow$ 3 cm, & pale needles
superb photos - (Photoshopped, stacked?)

D. Moulding & A. Tindle (2005) J. Russ Soc 8 [2]. Ferro-
columbites, analysed.

① - 1" 189 69, 473 6847
 ② - 1" 190 7352

A 32

Wh. CLARENCE, St. Agnes, Cornwall.

See also TYWARTHAYLE MINE (A.13) ~~and another~~

= TYWARTHAYLE MINE? (GR) At Porthowan

Another one S of Wh Audence! - AKHT. Dines gives only the Tywarth. one

JC (1871), 5M: (Sn) Smaltite; cassiterite.
 & TMH (1868)

SRMRGB 21 many Section given. Pb vein intersects
Sn & Cu lodes.

AKHT (1962) 2 32 ANOTHER Wh. Clarence, formed
 ca 1830's by joining N, S, & E BUDNOCK (BUDNICK)
 BUDNOCK TREVELLAS, & Wh. BARKLA. - with bounds

to Wh FORTUNE to E ; W to 80 fms from
GUMPUS ADIT ; N to Wh PROVIDENCE sett [?: PRUDENCE]
S to 200 fms from HIGHBURROW SHAFT.
E. Wh. KITTY was to the S.

WHEAL AN CLEATH, ~~the~~ ST. Agnes, Cornwall

See POLBERRO M. cf. Wh. DREATH

1" 189

SW 475 402

Wh. CLEVELAND Zennor, Cornwall

See also WICKHAM; Wh. N. GRILLS

DBB (1963) 11. Mentioned

AKHJ (1961) 13 Mid 19th cent. reinvestigation of
old workings. - acc. to Dines on W bank of
Treveal stream.

1" 186

SX 28 61

K 131

CLICKER TOR, Menheniot, Cornwall.

✓ JC (1841), 65: Asbestos; calcite; serpentine.

Datolite ✓ in picrite

C. Rogers (1968) CLICKER TOR Q'y:- Serpentine;
asbestos; albite xls.; wollastonite;
calcite; picrolite. [Key- var of antigorite]
(or does he mean the picrite?)

CMRM (1995) Actinolite; anorthite (?) ("fels par, when
fresh was probably anorthite - E.H. Adye (1907) "Modern
Lithology"). augite

1" 190

SW

7440, 7441

Wh. CLIFFORD, Gwennap, Cornwall.

See also NEW CLIFFORD M., CLIFFORD AMALG. etc.

Dewey (1923) 34 ff. In 1861 combined with (St Day)
UNITED MINES & (Gt.) CONSOLIDATED MINES
as CLIFFORD AMALG.

Cu ores produced (Wh. CLIFFORD). 1835-56, 1857-72

CMRM (1995) Marcasite

1" P10

SX 74 40

CLIFFORD AMALGAMATED MINES, Gwennap, Cornwall

See also NEW CLIFFORD M., CONSOLIDATED M's etc.,
ST. DAY UNITED M's etc. WH. CLIFFORD.

Dewey (1923) 34ff. In 1860, UNITED M's [St Day],
(Gt). CONSOLIDATED M's & WH. CLIFFORD were
combined as CLIFFORD AMALG. M's.

Section, p. 34

Cu ores produced 1833-36; 1845-76.

1" 190

SW ~~731~~ 731 402

NEW CLIFFORD MINE, Juennap, Cornwall, R 59

See also CLIFFORD AMALGAMATED MINES, wh. CLIFFORD.

JC(1871), 56: (Sn, Cu, wkg.) Cassiterite.

Wh. Clifton, St. Agnes, Cornw.

See Bevas Moor M.

1" 190 73, 53,
CLIGGA HEAD, Perranporth, Cornwall (I) A 3
~~See also PERRAN GT. ST. GEORGE MINE, etc.~~ ^{Perranzabuloe}.

AWGK. Greisen veins in granite. Stannite; topaz; arsenopyrite;
AWGK. MM 31 815 eucrase (be) [BM, char blue] ^{ONE} 18 mm prism, characteristic cleavage
(1958)

AWGK, AGSC (1952) Connellite; Tallingite; botallackite, well
crystallised but very small; paratacamite.

AWGK + PGE Min Soc Notice 94 (June 1956). Composite, stuche occur. of botallackite

BM: Varlamoffite, yellowish earthy; (MM 29 817)

AR, MM 20 225 (1924) Topaz; AR, MM 29 817 (1952), molybdenite,
torbernite, Olivenite, lepidolite, varlamoffite, stannite.

Proc Min Soc June '56: Scorodite, topaz, wolframite, arsenopyrite,
cassiterite, botallackite. [infra]

Proc Min. Soc. Nov '55: Isostannite (Claringbull & Hey). [Isostannite = cubic]

GR June 1955 (i) On top of cliff, at edge of aerodrome, blocks of
greisen with stannite (indicator = blue Cu staining), cassiterite

xls. (ii) On way down, quarry where greisen bands beautifully displayed. (iii) Cliffs themselves are granite with weathered-out orthoclase xls; quartz/greisen veins; botallackite; varlamoffite; arsenopyrite; Cu mins, etc. Wolfram; no topaz found - G.R.

JC (1871) 57 (St Agnes) Cassiterite; Kaolin; Wolfram; Chalcopyrite.

Rudler (1905) 25. Scrivenor QJGS lxx (1903), 142. Topaz

JMH (1868). Cassiterite Kaolin, Chalcopyrite, Wolfram
RSWB (8/65) 210. Pharmacosiderite; qtz, Wolframite, Tourmal; ? varlamoffite

AR MM 21 Cligga Head cliffs descended, found cassiterite
Wolframite, scorodite, ^{miny} topaz

p221. Topaz: best on floor of flat quarry-like excavation, a little N of the steep gully leading to the beach - in 1 ft vein.

CLIGGA HEAD, Perranporth, Cornwall (II).

C. Rogers (1968) CLIGGA MINE: Cassiterite*;
wolfram*; arsenopyrite*; chalcopyrite*;
topaz*; andalusite*; molybdenite;
stannite; scorodite; copper; fluorite;
gold.
(* = coll. by C.R.)

AKHJ (1962) 2 41 Snew dissem. in cliffs. According
to Henwood (1838), but of cliff fall every

winter, & miners collect the Sn on the beach.

Anon., Gems (1973), 5 [2], 9-10. Cassiterite; wolframite; stannite; native copper; molybdenite. Being actively explored.

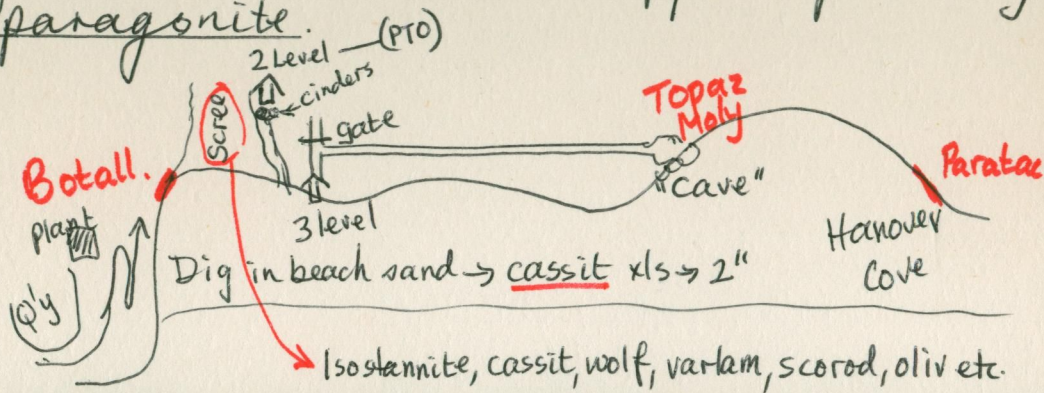
R.W.B. Plym MMCT (1974) 5 [1], 7-8. At 738537, may be reopened shortly. Good cassit. xls, wolframite, stannite, topaz. (A)

[But RWB Priv Comm via JRK says the ~~BM~~ BM ^{min} says the Cligga "stannite" is the cubre, isostannite] (B)

W.W. Pinch Min Rec 1978 9 [2] 113. "Minerals Unlimited" is selling kesterite from "Cugga mine, Cornwall, England" (C)

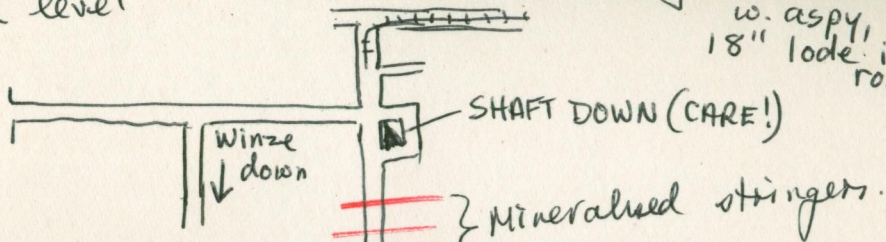
CLIGGA HEAD, Perranporth, Cornwall. (III)

R. Turner 6/80. Von Knorring says much of the mica is zinnwaldite, & the greenish micaceous stuff is probably paragonite.



No 2 level

Follow railway → Isostannite
w. aspy, qtz.
18" lode in
roof



Big "CATHEDRAL" stope
CARE - enters 1/2 way
up - collapsing in
parts. BEWARE of
reading poem on wall - someone fell while looking at it!!
In roof of W end, big (3"+) cassit xls. Possibly
get-able from No 1 level?

CLIGGA HEAD, Perranporth, Cornwall (IV)

Roy Starkey, Priv. Comm., spec's to RSWB (81-128
& test micro-specimen) (11/81). (m-?) Zennerite
small ($\rightarrow$ 1 mm) clear green xls on
quartz, with arsenopyrite, minor
connellite, "from 300 ft level, Cligga
mine",

Am Min 62 (1977) 176. "Isostannite" ("cubic") = (Fe)
Kesterite $\text{Cu}_2(\text{Zn, Fe})\text{SnS}_4$ (tetrag.) [Zn-an
stannite]. [But v. over page - it isn't!]

F. Moore & R. A. Howe (1984) MM 48 389-96. Analyses
Stannite is the most abundant tin sulphide,
kesterite uncommon; closely ass. with
sphalerite & chalcopysite; some replaces
cassiterite. The stannite has ~5-6% Zn
& is zincian stannite. No stannoidite found.
No isostannite (cubic stannite) found (reported
by Claringbull & Hey (1955) (Min. Soc. Lond.
Notice 91, 92)

CLIGGA HEAD, Perranporth, Cornwall (V)

Russ. Soc Newsletter 20 (1990)

16th September 1989 Cligga Mine, Perranzabuloe, Cornwall. On a very wet and windy but warm day, our guide, Peter Seymour, led a party of four down the steep cliff path to enter the mine via the 300ft level, or Beach Adit. A tour of the level followed, and quartz, cassiterite crystals and a reasonable wolframite were collected from the area of No.2 Drive, and No.2 Cross-cut intersection.

The party then ascended through a large stope to the 200ft level, for a brief tour around. After some 4 hours underground, 3 of the party decided to leave and try their luck on the beach and cliff base, which also has good collecting material. This left myself and Nick Varley from Kingston Polytechnic, underground. Nick had some portable radon detection equipment with him and wished to take readings on the 200ft level, to add to those he had already taken elsewhere in the mine. I'm sure everyone will be relieved to know all the readings he took were very low, and would seem to indicate that there is very little problem with radon gas in Cligga Mine.

TOPAZ
TORBERNITE
TOURMALINE

VARLAMOFFITE

WOLFRAMITE

BISMUTH (NATIVE)
BORNITE

CASSITERITE
CHALCOCITE (Microscopic)
CHALCOPYRITE
CHALCOPHYLLITE
CHLORITE
CONNELLITE
COVELLITE (Microscopic)

DICKITE

(FERRO)STOKESITE

GALENA
GILBERTITE

KAOLINITE

LAVENDULAN
LOLLINGITE

MOLYBDENITE
MUSCOVITE

PYRITE

Russ. Soc. AGM., 4/91
CLIGGA HEAD AND CLIGGA MINE

Mining was started by "old men" prior to 1910, in 1941 the deposit was sampled for the Non-Ferrous Mineral Development Control to ascertain the possibilities for mining for the war effort. The mine worked rich zones up until 1945 with an average value of 12lbs. of mixed tin and tungsten per ton, from 1940 to 1945 some 300 tons of tungsten and 200 tons of black tin were produced. The mine was last assessed by Wheal Concorde Ltd. prior to the last tin collapse of 1985.

Access to the old workings is still possible and provides an excellent opportunity to study the veins and to collect samples. The mine is served by one main 300 foot shaft known as Contact Shaft, and three main levels that are made up of drives running from the shaft to the cliff face and crosscuts that link to the main stopes. Most of the workings are in the granite but on 2 and 3 levels the drives pass through the contact into the metasediments.

"ACHROITE"
APATITE
ARSENOPYRITE
ARTHURITE

QUARTZ

SCORODITE
SPHALERITE
STANNITE GROUP

CLIGGA HEAD, Perranporth, Cornwall (VI)

Check your Cligga Head Mine specimens

R. Soc N 23 (1992) Jim Goulding

During that splendid AGM weekend in Cornwall in 1991, one of the collecting trips was on Friday, April 5th to Cligga Head Mine. I was talking to Colin Sparrow when he bent down and picked up the fine specimen of metazeunerite reported in *Newsletter* No.22 - the first record of this mineral at Cligga. During that morning I collected four samples with scorodite crusts of a greenish-grey colour, two of which were chiselled from larger rocks. Back home, examining one of the pieces under the microscope at x16 magnification, I was surprised to find a number of tiny squarish, clear apple-green platelets on the freshly broken rock, not on the scorodite crust. Enlarging to x32, the platelets looked like torbernite, but in view of the presence of arsenic in, for example, the scorodite ($\text{FeAsO}_4 \cdot 2\text{H}_2\text{O}$), they seemed more likely to be

zeunerite ($\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 10-16\text{H}_2\text{O}$) or metazeunerite ($\text{Cu}(\text{UO}_2)_2(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$). XRD at Oxford University Museum has confirmed that they are predominantly metazeunerite; very small amounts of zeunerite were also present.

On examining a second specimen, the broken rock surface also had metazeunerite crystals, but not in such quantity. The other samples did not have the platelets. It would be amazingly lucky to have two out of four samples with metazeunerite if that mineral is very rare on the dumps. I therefore suggest that members who collected similar scorodite samples should examine these for tiny green platey crystals which could easily be overlooked. It may be that metazeunerite is much more common at Cligga Head than was previously thought.

DSDB 94-781
Highlight of the day was to emerge five hours later into the April sunshine and the sight of Atlantic rollers breaking against the cliffs which summed up the special wonder of mineral collecting in Cornwall.

David Roe

Cligga Mine (surface) Friday 5th April

In weather conditions somewhat less than favourable for collecting at a cliff top location - viz. with an onshore westerly, gale force 7 to 8, with rain squalls threatening under the lowering clouds - thirteen hardy members gathered on the former headgear platform of Contact Shaft, along with the underground party. Having seen the latter set off down the Cligga Head (the soft option?) the party moved off to the northern end of the sett, where we spent two hours working over a relatively small section of old spoil which usually proves to be slightly less barren than the majority of the Cligga dumps. True to form, most of the party came away with specimens of scorodite and cassiterite. A single specimen of metazeunerite (not previously recorded at Cligga?) was found by the leader - the visual identification confirmed on the spot by R. S. W. B - giving rise to dark mutterings of 'probably planted yesterday!'

Wind-battered, we retreated to the shelter of the cars for lunch. In the afternoon a depleted group, just eight of the original party, proceeded to the south of the sett in slightly improved weather to try for topaz at an old Russell/Kingsbury location on the edge of the cliff overlooking Hanover Cove. The topaz crystals, occurring with quartz and occasionally cassiterite in the kaolinised granite have always been difficult to spot and rank disbelief showed on seven faces during their first hour of searching; then the first specimen was found - much to the relief of the leader - and several others soon followed. We eventually returned to the cars and headed for Truro at 4.00 pm.

Colin Sparrow

RSW (1994) 24
27 September 1992 Cligga Head, Cornwall

This trip did not get off to a very good start as the three of us who did turn up spent a half-hour waiting for those who were booked to attend, but didn't bother to turn up or cancel their places. However, the depleted party had an enjoyable day, probably because there was only three of us.

Cont'd → (VIII)

CLIGGA HEAD, Perranporth, Cornwall (VIII)

We entered the mine on the 300' level and went to the winze area. This winze is in fact a small bottom stope about 12' deep and usually full of water. This time it was almost completely dry - something I haven't seen before.

Nothing spectacular was collected (as usual for Cligga), but small specimens of wolframite and cassiterite were found, and quite a smattering of molybdenite was also seen.

Pete Seymour

CMRM (1995) Erythrite
(CLIGGA MINE);
stannoidite;

Cligga Mine and Beach, Perranporth,
Cornwall [Grid Ref: SW 710 515] -
4 June 1995 RSN (1995) 27
SWB, Leader: Pete Seymour

After an indifferent start to the day weatherwise, it turned out to be absolutely glorious - just what you want when you are about to go underground!

After descending the cliff to the beach, the underground trip began, leaving some of the members to try their luck outside on the scree and along the cliff base and foreshore almost to Hanover Cove.

The usual tour of the third level followed with a little activity at the usual collecting sites. Several members spent some time picking through the load material found in the eastern end of the 'Big

PTO

Stope'. Access to this end of the stope was not always so easy, but it has been made so by persons unknown. The material in the stope contains lots of slightly open quartz, mica in thick bands, and chlorite which here often has associated cassiterite and wolframite crystals. Plenty of the 'house speciality' were also to be seen around the level; stannite, isostannite and kesterite (what I usually call 'mixed sulphides' which seems to do the trick!).

We eventually joined the beach party to do some collecting in the sunshine, with a couple of people actually managing to get onto Hanover Cove - and incidentally making it back without being cut off by the tide!

From the comments passed to me, everyone collected something worth taking home (unusual for Cligga), and our thanks go to David Roe, our esteemed field secretary for scheduling such marvellous weather for our trip.

Some of the minerals collected were: cassiterite, wolframite, topaz both massive and as nice crystals, scorodite, fluorite (almost! - the nice cube dropped of with the last hammer tap), zeunerite, arsenopyrite, and arthurite. {1

1" 190

SW

81 33

Wh. CLINTON, Mylor, Falmouth, Cornwall.

AWGK MM 32 921. Near Trefusis Point. Old lead
mine. Danabite, galena, blende, calcite,
chalcopysite. [Trefusis Pt. 818 335]

1" 189 ? 62 34 / 63 38 3 35
CLOWANCE MINE, Crowan, Cornwall

See also GRENVILLE, PENDARVES
GC Goodridge, Geog. Mag (1967) 686. Being re-evaluated
with, Grenville Ltd., and Pendarves estate

CLOWANCE WOOD M 6234

1" 189

SW 63 35

CLOWANCE PARK, Helston, Cornwall. M 84

TMH (1868), 41: Obsidian.

1" 190

SW 70²⁵ 408

CLYJAH MINE, Redruth, Cornwall R 45

See also WENTWORTH MINE

JC (1871), 53

Epidote; garner; zippeite.

KCD (1952) 116. "CLYJAH & WENTWORTH" also known as Wh. PERSEVERANCE.

5 lodes in metam kyllas

$\frac{3}{4}$ ml S of Redruth Str: SOUTH; WHITFORD'S; WENTWORTH, & MARY ANN, & JULIA. LODES.

Worked Cu 1856-1877, yielded 119 tons fluorite.

AKHJ (1962) 3 13. PERSEVERANCE = CLYJAH & WENTWORTH, served by adit from centre of Redruth, via Wh. BUCKETS.

1" 190 70, 500

WHEAL COATES, St. Agnes. Cornwall (I) A 4

AWGK, RGSC (1952). Tellingite.

BM: Cassiterite, after orthoclase

Turo Mus: "Eulytine" (old specimen) [v. infra (II)]

Henwood: Hemimorphite pseudo after felspar xls.

JC (1871), 57: (Sn) "Agnesite" (Impure bi ochre? - Hey) [v. infra (II)]
e TMH (1868) bismite; cassiterite; mica; orthoclase;
remarkable cassit. ps. after o'clase; schorl.

Rudler (1905) 13-14. "Well-known" pseudomorphs of
cassiterite after orthoclase felspar + Carlsbad
twins of orthoclase. At one time abundant in

a lode in a soft decomp granite, or perhaps an
elvan, called a "sand lode" because it contained
so much sandy matter.

AWGK R6SC (1964) Svanbergik $\text{SrAl}_2(\text{PO}_4)(\text{SO}_4)(\text{OH})_6$
in andalusite-schist [GR: glassy clear $\Rightarrow$ yellowish
grains w pink inclusions]
AKHJ (1962) 2 25 Clay.
Drugman MM (1927) 21 366 β -quartz twms

RWB (8/66) 5 58 Nat. Trust - fine engine house.
Little dump-stuff exposed - none collected.

C. Rogers (1968): cassiterite [coll. C.R.]; ~~and~~ andalusite;
copper; cuprite; chalcopyrite; arsenopyrite

Wh. COATES, St Agnes, Cornwall. (II)

AM Clark AG Couper PG Embrey & EE Fejer "Waylandite,
new data, from an occurrence in Cornwall, with a
note on ~~#~~'agnesite'. Min Mag (1986) 50, 731-3

The "eulytine" of Collins (1881) ["Catalogue of the
minerals in the Mus. of the Royal Institution of Cornwall" No 2
p. 32]. Specimen RIC 1589 has no eulytine
& earthy mineral gives clear XRD of
bismutite.

This = the "agnesite"
of Brooke & Miller (1852) "Intro. to Mineralogy" p 591.

CMRM (1995) Andalusite: a "word" cassiterite
also ψ -after orthoclase; 'glauconite'; 'pisavite'
(= var. of melanterite); quartz (ψ - β -);

Nr 736 529?

Wh Cock, St Agnes, Cornew.

See Wh. Prudence

WHEAL COCK, St. Just.See also BOTALLACK MINE Cornwall (1)

AWGK, RGSC, 1952 - Connellite, tufts of dark blue radiating needles; Tallingite; Botallackite; Paratacamite; apatite; brochantite; olivenite.

AR Min Mag. 19, 19 (1920). Phenakite; Scheelite.

AWGK - Pale brown massive scheelite in rather fine-grained chlorite; phenakite xls in v. coarse dark green mucky chlorite - both rare.

AWGK, Min. Mag. 31, 816, (1958). Buff prisms of apatite in chlorite matrix; one spec. with henderite looking like the apatite, and phenakite.

JC (1871) 47 See under BOTALLACK MINE (StJ 9)

AWGK. Francolite on dumps on Roscommon Cliff; also rhodochrosite.

Visited, Sept 1957; Aug. 1958 loc 112. N end of long dump.
Nothing good found after breaking up quite a
lot of chloritic matrix; much arsenopyrite
- RSWB & GR. S. end: Tallingtonite - RSWB.
Also ? Rutile needles on quartz

BM: Herderite;

AWGK, RGSC (1964). Cobaltite

WHEAL COCK, Crowns Cliffs, St. Just. (II)See also BOTALLACK MINE, CROWNS M., W. HAZEL, CornwallA.R. Min. Mag., (1910) 377 Stilbite & Analcite?Min. Mag., 16, 217, (1912). Prehnite in cliffs between wh. code & Crowns Rock. Pale green glob. eggs of curved xls, & forms veins traversing a narrow strip of greenstone intruded through granite mass, assoc. w. stilbite and axinite.J.C. (1871) 47 See BOTALLACK MINE, (St J 9)Dines (1956) 72 Included in BOTALLACK MINE, (qv).AR MM (1920) 19 19. Phenakite & scheelite (AWGK- Pale brown massive scheelite in rather fine-grained

chlorite; phenakite vb in very coarse-grained dark-green ~~mucky~~ chlorite; both are rare).

AWGK RGSC (1952). Connellite, tufts of dark blue radiating needles; tallingite; botallackite; paratacamite; apatite; brochantite; olivenite ✓

AWGK MM 31 816 (1958). Apatite, buff prisms in chlorite matrix, one spec. with hercynite looking like the apatite; & phenakite

AWGK TrivComm (1958). Francolite, also rhodochrosite still found on dumps on Roxscommon Cliff.

Wh. COCK, St Just, Cornwall (III)

AWOK, MM 32 925 (1961). Helvine, found 1949,
very rare. In the skarn-type material
on the dumps: massive, rather decomp
chloritic matrix, with phenakite, bertrandite,
hercynite & apatite. Helvine is pale yellow,
waxy, Mn-rich, & rather similar to the
scheelite also found here (Hosking & AWOK;
pale yellow bipyram. xls up to 6-7mm)

Dovey Cu (1923) 6 Chalcocite in greenstone

Chalcocite in the greenstone. Basic Cu

C Rogers (1968) Magnetite; amethyst; copper;
jasper; apatite; felspar; purple fluonite;
carnelian.

N Hubbard (coll). WHEAL COCK ZAWN. Wickmanite
(XRD, BM(NH))

WHEAL COCK AND BOTALLACK AREA

Russ. Soc. AGM., 4/91

The early history of Botallack sett is not known, but some mines were probably active in the early part of the eighteenth century. Dines (1956) states that Wheal Cock was reopened in 1778 and was incorporated into the Botallack sett in 1841. In 1906 a company called Botallack Mines Ltd took over the workings and undertook some evaluation. Allen's Shaft was sunk to explore the lodes in the central part of the sett below the level of the old workings. Wheal Cock section was dewatered to provide ore during the sinking of Allen's, but the lodes were poor. Activities ceased in 1914.

Cont....(IV)

Wh. cock, St. Just, Cornwall (IV)

Wheal Cock and North Lodes (essentially copper lodes) were opened up from Engine Shaft on the cliffs south of Wheal Cock Zawn, both lodes being in the aureole rocks. Wheal Cock Lode is developed between the 25-fm and 170-fm levels for a distance of 273-fms on the 112-fm level north of engine shaft and between adit and the 180-fm level for 210-fms on the 112-fm level south of engine shaft. The 190-fm and 200-fm levels on Wheal Cock Lode extend about 15-fms north and 35-fms south and the drives at the 210-fm and 220-fm levels are short. The mine bottoms out at the 220-fm level (395m) which according to Dines (1956) was reached in 1894. Production figures are given by Dines (1956) as:

Wheal Cock	1821-1838	8 tons black tin 2175 tons copper at 10% Cu
	1841	"a little black tin"

During the reworking by Botallack Mines Ltd, between 100-150 tons of black tin were produced annually between 1907-1914.

P.T.O.

MINERALS FOUND AROUND THE WHEAL COCK MINE SITE:

ADULARIA

ARAGONITE

ARSENIC (NATIVE)

ARSENOPYRITE

BISMUTH (NATIVE)

BROCHANTITE

FRANCOLITE

GALENA

GOETHITE

HELVINE

HEMATITE (SPECULARITE)

HERDERITE

SIDERITE

SMALTITE

STANNITE

TOURMALINE

" TALLINGITE "

CALCITE

CASSITERITE

CHALCOCITE

CHALCOPYRITE

CHLORITE

CONNELLITE

COPPER

CUPRITE

LANGITE

MALACHITE

(MANGANO)CALCITE

PARATACAMITE

PYRITE

QUARTZ

RHODOCHROISITE

SCHEELITE

DIGENITE

DJURLEITE

DOLOMITE

EPIDOTE

OTHER SPECIES OF INTEREST:

VARIETIES:

CASSITERITE - SPARABLE TIN

TOURMALINE - ACHROITE

NEW FINDS:

BRUSHITE

1988 1st. SW find

CHALCOMENITE

1987 1st. British find

Wh. COCK, St. Just, Cornwall (V)

Wh. Cock Saturday 6th April. RSN(1991) 22

We met at the car park between the Count House Restaurant and Allen Shaft headgear and the majority of the party started to put on waterproofs, in some cases three layers, as they had been caught out the day before. 'If you see a yellow body floating in the sea below the cliffs, come and fish it out, as it will probably be me', called one member.

We were then introduced to Simon 'rally driver' Dominy, who had shown his expertise at turning circles in the gravel on his arrival with the leader, Colin Sparrow. Simon took a small party (6) to the nearby Bostraze Clay Pit to view the processing plant; the rest of us (19) set off to walk to Wheal Cock.

Heads into the rain and wind we walked down the path towards the trig. point, stopping at intervals to hear about the history of the sett and the buildings and shafts around Botallack. The wind made it difficult to hear Colin and we all tried to get downwind as he told us about Wheal Chicken, sandwiched between Wheal Cock and Wheal Hen! Then it was down to the dumps between Skip and Engine Shafts to look them over. Some people put their backs to the weather and worked while others moved into more sheltered areas around the tips. Colin was much in demand answering queries such as 'What do you think this is?', or 'Could this be. . . ?', as the group collected samples of adularia, aragonite, arsenopyrite, brochantite, calcite, cassiterite, chalcocite, chalcopyrite, chlorite, native copper, epidote, fluorite, goethite, hematite, langite, pyrite, quartz, siderite, tourmaline and connellite.

Wh. COCK, St. Just, Cornwall (VI)

CMRM (1995) Augite; bismuthinite;
cornubite (SKIP sh.); cornwallite; hastingsite (K-Mg-);
jarosite (SKIP sh.); libethenite (SKIP sh.);
lilroconite (SKIP sh.); manganite (SKIP sh.);
paracostibite (?); parquesite (amphibole);
skutterudite ["smaltite"]; woodwardite;

BMS Newsl (1996) 45, 2 Chalkomenite
th (2001) 60, 7 Ditto, coll by the "Wallace clan"

MM (9/00) says has been told arsenogoyazite

D. Green, A. Tindle, R. Belson (2005) UKJMM 26, 27-28
Arsenogoyazite, 1st Brit. ps-cub c'less $\rightarrow$ 0.5 mm
"cubes" octah" sparse scatt in quartz. PHOTOS

726 513

Codnacoose M, St Agnes Conn

See Wh. Kitty

1" 190

Wh. COITES

SW 723⁵ 512

718⁵ 33

Wh. COIT, Sr. Agnes, Cornwall.

See Wh. KITTY

JC (1871), 57: (Sn, wkg.) Cassiterite. ✓

1" 185 SX 0657
COLCERROW QUARRY, Luxulian, Cornwall ~~SA~~ 18

BM Herderite; vg apatite

AR, MM (1910). Stilbite & chabazite.

AWGK, MM 31 817 (1958). This & other quarries nearby:

Fluorite; gilbertite; apatite. Difficult to get specimens now, but AWGK got some nice ones in 1931.

Herderite, similar to the apatite.

MM 15 380 Stilbite, apatite, orthoclase, tourmaline,
quartz, gilbertite, chabazite, fluorite

CMRM (1995) Smoky quartz

Wh. Cole, St.-Just, Corn.

See Boswedden M.

Collurian M, Ludgvan, Corn

See Ludgvan Wh. Margaret

Colquite M, Callington, Conn.

See Callington Utd. M.

1" 190

SW 717 396

COMFORD MINE, Gwennap, Cornwall.

See also TRESAVEAN M., etc.

Dewey (1923) 33 COMFORD & N. TRESAVEAN produced
Cu ore ✓ 1844-56. Included in TRESAVEAN

Wh Comfort, Lelant, Conn

See Wh Providence

11 187

SX 04. 620

CONCE MOOR, Luxulian, Cornwall.

AR, MM 21 221. Topaz, with cassiterite,
tourmaline, gibberite.

1" 189 SW 66 39 C22
CONDURROW, Camborne, Cornwall

See also Wh. BASSET; S. CONDURROW MINE.

Rutley, 15th. Ed., p. 210, tetrahedrite.

"Fluorspar", p113, (1952) Camborne/Redruth Area.

Collins (1871), 51. "Condurrow, South," Camborne. Working for
tin and copper. Cassiterite.

Ludler (1905) 64. "Condurrite" black soily amorphous,
? Cu arsenide or mixture.

Dewey (1923) 27 Discussed with Wh. BASSET [qv]
Gt. CONDURROW produced Cu ores. 1845-1876

Condurron

CMRM(1995) Domeykite

1" 189

SW 66 38

SOUTH CONDURROW MINE, Camborne, Cornwall.

See also CONDURROW, etc. Wh. BASSET.

At Troon.

Dewey (1923) 28 Cu ores produced 1864-1902.

Principal lode = Gt FLAT LODE (see Wh. BASSET)

which only gave Sn ore. MIDDLE lode gave

✓ Sn & Cu ores. W. BASSET Cu lode to S gave Cu
sulphides in peach & killas & quartz. ✓

Collins (1871) 51 (Sn & Cu) Cassiterite ✓

BMSN ('07) 74, 4. R. Selley. MARSHALL'S & BOUNDARY

Sh's capped. Ironstone/pyrite, cassit (mainly

spatable); μ -xls brochantite; malachite;
cuprite xls in qtz/chlorite; connellite;
torbernite.

1" 185 SW ~~26~~ 86
"Wh. CONFIDENCE, Newquay", Cornwall.
See also Wh. ROSE, Sithney.

AR, MM 21 221, (1927) Supposed loc. of Cornish
phosgenites in Brooke Coll, Cambs, & Phillips Coll, L'pool.
Actual loc more likely Wh Rose,
Sithney. (qv) The Brooke Collection specimen
has also paralaurionite, arglesite, etc.

CMRM (1995) Cerussite.

1" 190

Cent on SW 74 42

CONSOLIDATED MINES, Gwennap, Cornwall. (I) R 60

See also POLDICE MINE; WH. VIRGINS; FORTUNE; CUSVEY; LOVELACE;
CARMARRACK; CLIFFORD AMALG.

Henwood: Redruth area; composed of. W part: W. Wh. VIRGIN (R 29)
Middle: E. Wh. VIRGIN (R 29); Wh. FORTUNE (R 22)
CUSVEY MINE (R 28)

JC (1871), 56: (Cu) Barytes; cassiterite; chalcocite;
chalcopryite; copper; cuprite;
gypsum; melaconite; molybdenite;
orthoclase; pyrite; rock xl; schorl.

Dewey (1923) 30 Section, labelled "CONSOLIDATED MINE"
given under "POLDICE MINES", another on
p. 34, under "CLIFFORD AMALG".

W. Phillips (1823). Chalcanthite;

Dewey (1923) 34 ff. Consisted of Wh. FORTUNE; W & E. Wh VIRGINS; CARHARRACK, LOVELACE & CUSVOE.

In 1861 combined with St. DAY UTD. & Wh. CLIFFORD as CLIFFORD AMALGAMATED M's.

Main lode = TAYLOR'S LODE worked for 4 miles at Wh's FORTUNE, LOVELACE, W. Wh. VIRGIN & Wh. WENTWORTH.

Had a good gozzen often down to 150 fms, below which a zone of copper oxides, below which pyrite & chalcoprynite in quartz. Much blende.

Also PAUL'S L. - ~~blende~~ melanconite, chalcocite, chalcoprynite; GLOVER'S L., similar. DEEBLE'S; Wh FORTUNE LODE; CUSVEY L. Closes 1819-58

CONSOLIDATED M's, Gwennap, Cornwall (II)

V.T. Rae; B.V. Cooper; S. Weller, Priv. Comms (10/84)
Ceruleite (IR, RSWB); scorodite, torbernite
in new shaft &/or incline. See Wh. MATD, Gwennap

1" 189

SW 50 35 H 51

CONSOLIDATED MINES, Lelant, Cornwall.

TMH(1868) 46: Sn mines, in granite. Cassiterite; felspar;
mica; schist.

JC(1871) 48: Minerals as above.

= LELANT CONSOLS.

Consolidated Tm M's St Agnes

See Blue Hills M & Wn Kitty

CONSOLIDATED MINES, St Ives, Cornwall

See ST. IVES CONSOLIDATED MINES.

1" 190 833545 SW

WHEAL CONSTANCE, Newlyn East, Cornwall

A 14

1" 190

SW 74 29

CONSTANTINE, Cornwall.

(I)

L 43

See also MAEN QUARRY (L1); L 41; L 42; MABE (L 45);
CONSTANTINE MINE; Wh. CAROLINE; Wh VYVYAN

✓ C (1871) 57 In granite quarries: Fine embedded
xls orthoclase; occasional xls of
beryl & topaz, but very rare.

Rev. V. Holyer, Priv Comm 9/89. Quartz vein
float found in band from ~ 750 300
→ ~ 712 280 passing through Wh. CAROLINE
(q.v.) & S of village. In places extremely
rich in wolframite blades → several cm!
[Has av. rich boulder ~ 1 ft across!], looks
much like Carrock mine material. Some

scheelite, x/s rare; arsenopyrite; native
bismuth; rarely scorodite, pharmacosiderite
Possible rich vein below!

Constantine, Cornwall



Rayner's Cat. (1960).

Maen quarry - apatite, orthoclase, qz,
tourmaline.

1" 190

SW 73-5 27-8

CONSTANTINE MINE, Constantine Cornwall. L 41

JC (1871), 54: (Fe, wkg). Limonite

GS 1" map shows two Fe lodes S of Constantine

- (i) ENE from SW 731 282 → 743 276
- (ii) WNW from SW 735 277 → 747 282

Intersect near SW 738 278

Rev V. Holyer Priv Com 9/89. Dump at 745 2805
just S of road, has excellent haematite
some kidney ore also excellent goethite
incl. compact radiating. RSB found
site overgrown with brambles etc in 9/89
Vein quartz

and unapproachable. Adjacent field
had much haematitic material in
it.

1" 189 SW 66 40
COOKS KITCHEN, Illogan, Cornwall
New Cooks Kitchen (Dines) 1" 189 663408

C 8

Truro Museum - Pitchblende ✓

BM: Bornite; chalcocite ✓

New Cooks Kitchen is part of S. Crofty Mine see C11.

RSWB 1959 Dumps of new adit; loc 128 Erubescite (massive)
chalcopyrite; arsenopyrite ✓

Loc 129 Complex of Dumps to S, ~~located~~ between Cooks Kitchen &
railway. (N of railway line), opposite valley from Dolcoath
mine, at 1" 189, 663405. Brochantite ✓

Je (1871), 52: (Sn, Cu, wkg.) Bitumen; chalcocite; chlorite;
erubescite; fahlerz; lithomarge ✓

var of marcasite

lonchidite; marcasite; arsenopyrite; pyrite;
schorl; steatite? tennantite.

Rudler (1905) 39 Bornite

p 92. Quartz, large xls bearing hollow epimorphs
 of siderite, sprinkled with red iron oxide

AR, MM 20 299 Arsenic, doubtful, acc. to JH Collins

Dewey (1923) 25 Included in S. CROFTY MINE [qv]

W. Phillips (1823). Chalcocite; bornite; tennantite;

CMRM (1995) "Blister" chalcopyrite; halloysite; wolframite;

NEW COOKS KITCHEN, Illogan, Cornwall.

See COOKS KITCHEN

1" 189

SW 630 366

C 41

COPPER BOTTOM MINE, Camborne, Cornwall.

TMH (1868), 36

Pyrite; chalcopyrite

1" 190

SW 707 405

COPPER HILL MINE, Redruth, Cornwall R46

JC (1871), 53:

(Cu, wkg.)

langite ✓

✓
Chalcocite;

✓
fluorite ✓

chalcopysite;

Rudler (1905), 47.

Langite ✓

Cornubia M., Roche, Corn.

See Cost all Lost M.

Old Cornubian M., Perranzabuloe, Corn.

See Chiverton M.

Wh. Cornwall, St. Agnes, Corn.

See Wh. Burrow and B.

CORONATION LODGE, St. Just, Cornwall

See GEEVOR M.

Wh. CORTON, St. Neot, Cornw.

See KILHAM M.

Wh. Corva , Sk Ives, Comm

See Wh Trenwith

1" 185

SW 999 597

COST ALL LOST MINE, Roche, Cornwall. SA 54

JC(1871) 60: Bismite; cassiterite.

TMH(1868), 50: Bismuth ochre

Dines (1956) 530-1 = ROCHE ROCK MINE, = CORNUBIA MINE

Has been included in N. BUNNY or MID-CORNWALL

MINES. $\frac{1}{2}$ ml E by S of Roche. Cassiterite.

Bismuth carbonate [Bismutite] recorded

1" 187

SX 433 693-5

COTRHOLE CONSOLS MINE, Calstock, Cornwall

See also Wh. ZION

OS 6 in map: Cu, Ag mine

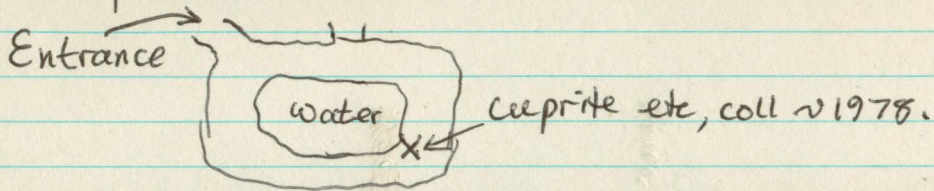
1" 190

~ SW 720 220

COUNTY BRIDGE QUARRY, Mawgan-in-Meneage, Cornw.
= "TELSTAR QUARRY". See also TREVASSACK; GOONHILLY

Quarry by roadside adjacent to and N of the
Telecommunications station on Goonhilly
Downs.

Rev. H. Holyer, spec → RSWB (8/89). Cuprite
with native copper in serpentine & some
chrysocolla ~~etc~~ (IR)



R. Tayler's cat. 44 (1989) Antigorite-
chrysotile, massive pale grey-green.

V. Holyer (1996) UKJMM 17, 25-28. "The minerals
of Countybridge Q., Goonhilly Downs, the Liz.,
Cornw." MA 97M/2274.

In serpentinite. Fine spec's nat
copper; chalcopyrite, connellite, cuprite,
malachite; rare nat. silver, in
colourful serpentinite w. haem. &
"possible chrysocolla" {v. supraz}.

1" 190

SW 78 18

COVERACK COVE, St. Keverne, Cornwall. L23
See also LIZARD.

JC (1871), 54: Diallage; hornblende; orthoclase;
serpentine; steatite.

Teall, MM 8116 (1884). Chrome-diopside in gabbro
on shore at Coverack, & labradorite in
same rock

Parkinson's Cat. (1959) Pyroxene var. diallage.

C Rogers (1968) Bronzite, flaky bronze-coloured

CMRM (195) Actinolite (COVERACK); augite; Cr-diopside

GS 1" map: Olivine-dolerite dykes in bay
N of Coverack. in 7818, 7819

Wh. CRAB, St. Hilary, Cornwall.

See also MARAZION MINES, etc.

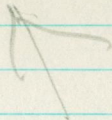
Wh CRACK, Lelant, Comm
e E e W CRACK

See Wh Providence

1" 174
CRACKINGTON HAVEN ^{st. genny} SX 14 36
"1 Cornwall 36

CMRM (1995) Aragonite (STRANGLES BEACH);
sideite (STRANGLES BEACH).

OS 1": The STRANGLES (beach) SX 1395



st. genny
5/1/97

1" 186

~ SX 24 71 K 89
25 70

CRADDOCK MOOR MINE, St. Cleer, Cornwall.
See also CARADON Ms etc.

VC (1871), 63: (Cu, wkg.) Chalcopyrite; cuprite

Dewey (1923) 49. $1\frac{1}{2}$ ml NNE of St Cleer Church, in granite. Eleven lodes, eg. VIVIAN'S N. LODGE; MENADUE L (of W. CARADON) with some fine "purple ore" [? bornite]. GERALD'S L; GILPIN'S LODGE, with "spar, mundic & peach, with grey & yellow copper ores".
Cu ores produced 1856-74
pyrite chlorite chalcocite

VT Rae, spec's $\rightarrow$ RSWB for ident, 1/88. On quartz + white kaolin matrix with

sectile grey chalcocite? & grey bornite
w. some irid. tarnish: langite blades
showing ψ -hex twinning angles; minor
brochantite?, connelite (?) deep blue
sphaules

CMRM (1995) Chrysocolla;

W. Bolton BMSN (1998) 51, 13 BMS Coll 2041

From Jx 259 702 pharmacosiderite.

CRANTOCK

CORNW

See NEWQUAY

1" 185

SW 91 73

CREDIS MINE, Padstow, Cornwall

Dines $1\frac{1}{2}$ ml S of Padstow, 180 yd NNE of Credis Farm.

Dumps of brecciated killas, cemented with siderite, overgrown with blueish quartz xls enclosing small chalcopyrite xls and a lead-grey mineral with a greenish tawnyish, ident as an intermediate tetrahedrite-tennantite.

CMRM (1995) Bournonite.

CREEGBRAWSE MINE, St. Kea, Cornwall. R 70

See also POLDICE MINE, Gwennap., GORLAND, UNITY.

JC (1871) 59. CREEGBRAWSE & PENKIVELL (R 71) (Cu, Sn, wkg.)
Cassiterite; chalcopryite; pyrite

Dewey (1923) 30. Included in POLDICE.

Cu ores produced: "CREEGBRAWSE & PENKEVIL"
1815-32, 1845-1902.

Truro Mus: Liroconite ✓

1" 189 WHEAL CRENVER, Crowan, Cornwall.
2 WHEAL ABRAHAM.

See also BINNER DOWNS MINE etc.

BM: Chalcocite.

Collins (1871) "Crenver & Huel Abraham", Working (Sn & Cu).
Cassiterite; chalcocite; chalcopyrite.

TMH (1868) 37 Wh. ABRAHAM: Chalcocite.
Wh. CRENVÉR: Chalcocite; chalcopyrite.

GM. Cited as U loc.

DBB (1963) 18-19. On same lodes & to E of BINNER
DOWNS MINE. Extends ca 1 mile along road.

Old & important - once biggest Cornish Cu mine
In 1822, 240 fms deep (deepest in Cornw.) Then
closed. Reopened 1864-1876, then 263 fms.
Only overgrown dumps remain

W. Phillips (1823) Chalcocite, CRENVER, OATFIELD &
ABRAHAM.

BMS Newsl. (2000) 56, 6-7. BMS Coll 2224 ex C Jewson
Siderite, CRENVER & ABRAHAM SW 632 337

1" 186

SX 35 68

CREVA WOOD, Callington, Cornwall.

K 100

JC (1871), 64:

Pyrolusite ✓

= PENCREBAR M.

^{1" 185} CRINNIS MINE ^{SX 05 52, 05 53} St. Austell, Cornwall IA 15
& CARLYON MINE incl CRINNIS CLIFFS
See also E. CRINNIS MINE (SA 73); S. CRINNIS.

BM: Childrenite, ^{AWGK, too.} on qtz. See MM 17 ~~1800~~ 193 (1914)

Rutley, 15th. Ed., p. 210, Tetrahedrite.

JC (1871) 61: (Cu) Chalcoprynite; chalybite; childrenite;
copper; fahlerz; galena; silver;
scorodite; pyrite.

Rudler (1905), 71. Childrenite, in assoc. with
apatite

W. Phillips (1823). Tetrahedrite

Dines (1956) 55b. 2 ml E by S. of St. Austell. Later known as GT.

CRINNIS & CARLYON CONSOLIDATED MINE. Two main lodes
E 30° S & EW, crops out on cliffs just E of Fanny's
Beach. Chalcopyrite, chalcocite, siderite,
argentif. galena, blende, scorodite, childrenite

C. Rogers (1968) Silver

B. Cooper (1977) Spec 77-103 → RSWB. Framcolite
small colourless xls encrusting Killas.
Coll. B.C. Pembroke Lode.

(1979) Childrenite [vg but iron stained - cleans
nicely in oxalic acid] in cliff exposures at
052 5195 & 054 520

CRINNIS MINE, St. Austell, Cornwall (II)

BV Cooper (11/04) spec's → RSOB for ident (04-81, 04-82). Green, micro needles on shale
FTIR = malachite. Bluish friable gel crust, FTIR = amorph hydrated sulphate (cf "enysite") = that from Tinkardstown mine, Knockmahon, Ireland. "From mine workings in a cave at CRINNIS CLIFF mine near Charlestown, reached by boat"

04-87 (coll. D. Ifold) has knobbly connellite on compact fibrous malachite (efferv. HCl)
On top, sparse transparent green plates
FTIR, 29/11/04 = nr. posnjakite (insuffic. sample)
[PTO confirms]

~~PARYS MINE~~, RSWB 05-17 Connellite etc
on highly friable gozzan. More & better
material sent, 12/10. RSWB 10-35 has
crust of blue-green platy posnakite (IR) on
layer of brochantite (IR).

1" 185

SW 05 52

EAST CRINNIS MINE, St. Blazey, Cornwall. SA 73

See also CRINNIS MINE (SA 15); S. PAR MINE; PEMBROKE M.

JC (1871), 61: (Cu) Blaude; chalcocite; chalybite;
chalcoprynite; copper; melaconite;
pyrite; rock xl.

Dewey (1923) 44 "E. CRINNIS & S. PAR":

Lodes; from S-N: SOUTH L; IRON SHAFT L; N. LODE;
GEORGE'S L., & another.

Siderite; pyrite; chalcoprynite; melaconite;
chalcocite.

Cu ores produced: 1820-41; 1860-62.
"PEMBROKE & E. CRINNIS, 1852-59.

1st 185

SX 045 522

SOUTH CRINNIS MINE, St. Austell, Cornwall

See also CRINNIS etc.

Dewey (1923) 45. Cu ore produced 1849-67

1" 189

Treen, SW 39 23

SW 32 or 42 ?

CRIPPI'S COVE, Treen,

Cornwall

SW 39 23

CMRM (1995)

"Pigotite"

1" 189 SW 56 31 569 309
CROFT GOTHAL MINE, Marazion, Cornwall.

See also HALAMANNING & CROFT GOTHAL MINE

CMRM(1995) Mimetite.

BMS Newsl. (1997) 46, 7. Monazite. (coll. R. Bell)

UKJMM(1996) 17, 17-18 Monazite-(Ce). Thin
tab. brown xls, to acic., in vein qtz with
chlorite. Also bismoclite replacing
bismuth & bismuthinite

S. Rust BMS Newsl (1998) 49, 8. Monazite-(Ce) in
chlorite; also thin platy black anatase

BMSN(2000)55.10 J. Betterton → BMS Coll.

2197: clinochlore

1" 189

1" (189)

65 8 41 3
66 41

CROFTY MINE Camborne Cornwall C 25

See also N. CROFTY (C 20); S CROFTY (C 11). E. CROFTY (C 26)

Dines: "CROFTY" 1" 189 65 8 41 3

JC (1871), 51. Wh CROFTY. Blende; galena; hornblende.

Reitley, 15th ed., p 207: Chalcopyrite.

" 190

SW 66 40 C 26

EAST Wh. CROFTY, Camborne, Cornwall

See also CROFTY (C 25); N. CROFTY (C 20); S. CROFTY (C 11).

BM: giant bismuth.

JC (1871), 52: Actinolite; axinite; bitumen; blende;
rock x.l.

Dewey (1923) 25 Included in S. CROFTY [qv]

"190
NORTH CROFTY MINE SW 66 40
Camborne, Cornwall. C 20

~~See also CROFTY MINE, et al; W. SETON etc.~~

"Fluorspar" 115 (1952). N of main road, between Tuckingmill & Pool.

Dines "Crofty". 1" 189 ~~65~~ 65,413 (See C 25)

~~Fluorspar~~
Cu/Sn from lodes in killas & greenstone. Closed 1899. Fluorite

JC (1871), 52 (Cu, Sn, wkg) Chalcoprynite ✓

Dewey (1923) 22 Included in W. SETON [qv]

¹⁸⁹ SOUTH CROFTY MINE, Illogan, Cornwall (I) ^{SW 66 41} C 11

Croft, (Dmes) 1" 189 ~~66~~7413 See also C14, C20, C25, C26.

AR Min. Mag. 16, 55 (1911) Phenakite - ^{up to 2 1/2 cm!!} on dark green chlorite containing numerous small bright xls of mispickel (Aspyr.). qtz, clers fluor

^{premier} MM 25 573 (1940) Beryl & bertrandite.

BM: E. Wh. CROFTY, giant Bismuth. (See C 26)

Rutley, 15th. Ed., p. 207, chalcopyrite from Wh CROFTY (C 25)

Working skull (1959) Visited RSWB (v/s!). Visited GR/55 - see his report

Fluor spar, 113, (1952). Original mine last century. Now includes others, such as KCD. E CROFTY; LONG CLOSE, NEW COOKS KITCHEN, N. TINCROFT, N & S. ROSKEAR, SETON, and a large part of DOLCOATH. ^{C26} ^{C19} ^{C8} ^{C7} ^{C9}
_{C18} _{C3} Cont'd PTO.

Early days mostly Cu, now mainly Sn, with some As & W. Some
fluorite (300-400 tons, 1914-18)
Quartz, chlorite, tourmaline, cassiterite, arsenopyrite, chalybite,
"Sericitic". iron oxide

JC (1871), 52 (Sn, Cu, wkg.) Chalybite; stannite.

KED "F" (1952), 113 Quartz, chlorite, tourmaline, fluorite,
cassiterite, arsenopyrite, siderite, sericite,
iron oxide.
Has produced Cu, Sn, As, W, Fe.

Dawey (1923) 25 Working. Set comprises NEW COOK'S KITCHEN,
W. Wh. CROFTY, S. Wh. CROFTY, E. Wh. CROFTY, LONGCLOSE M.
In Killas overlying granite.
GREAT LODE - Cu, Sn, W, As.

MIDDLE LODE - Chalcopyrite, bornite, fluorite,
pyrite. Joins NORTH & L. at 260 fm level

SOUTH CROFTY MINE, Illogan, Cornwall (II)

NORTH TINCROFT LODE: Chalcopyrite with bornite.

PRICES LODE (= ENGINE LODE of E. POOL MINE [qv]) joins
SOUTH LODE at 205 fm level. - crosses down to 100 fm
level in blue capel, peach [chlorite] quartz, fluorite, chlorite.

NORTH LODE: patchy, with much quartz & capel

RGSC (1960) 19113 Uraninite in concentrates. (Lucas & Zaghloul)

B. Cooper, spec → RSWB (1970). "Yttrian silica gel" from
260-fm level - "analysed".

Anon., Gems, (1973), 5, [2], 9-10. Working. Excellent

cassiterite; wolframite; purple fluorite
xls "up to 3 faces"; very good siderite xl
groups; bismuthinite; bitumen.

R.W.B. Plym MMCT (1974) 5 [1] 78. Fine xls
bismuthinite, bright silvery needles spanning
cavities & occas. embedded in fluorite.
Siderite, good xls; stannite, wolframite;
quartz xls; rarely well-formed "sparable"
cassiterite. A lugh in a cross-course
yielded superb v. large fluorite xls. → 4 ins,
sharp faces: deep purple, some zoned yellow,
green. Some xl-groups were up to 9 ins
across w. beaut. stepped fluorite xls ~~dusted~~
intergrown, & dusted w. a little drusy siderite.

SOUTH CROFTY MINE, (Camborne) Illogan, Cornwall (III)

CMRM (1995) "Blister" chalcopyrite; enargite; gypsum;
haemabite; marcasite; melanterite;
lungstite ("lungsten ochre")

BMSN letter (1999) 53 9, 10. C. Jewson → BMS Coll.

2148: cuprite

2149: pyrrhotite

2150: monazite. ("mighty small")

BMSN (2000) 55, ~~11~~ 10 C. Jewson → BMS Coll

2151: Monazite; 2152: cassit; 2153: anatase;

2154: ilmenite

RSN('07) 50 32. cupy, born, covell, pyr,
sphal, chalcocite, qtz.

1" 189

SW 66 41 (?)

WEST Wh. CROFTY, Camborne, Cornwall

See also S. CROFTY etc.

Dewey (1923) 25. Included in S. CROFTY [qv] 66 41