

CUMBERLAND

Divided into three zones.

- ① EAST CUMBERLAND: Alston Moor, etc.
- ② CENTRAL CUMB. Lake dist., etc. + misc.
- ③ WEST CUMB. W. coast.

WFDavidson & N Thomson "The North Western Naturalist" (1948)
23, 136-154.

Eastwood et al (1931): Mem G.S. "The geol of the
Whitehaven & Workington District" HMSO PTO

T. Eastwood, EEL Dixon, SE Hollingworth & B Smith (1931)

Acanthite

Cumms

- C Red gill (storage growth ex Ag)
- C Ballinay Rigg (ditto)
- C Short grain

Actinolite

Cumt

c Borrowdale

W Eskdale (gatecrag)

Adamite
See also Zincolivenite

Cumby

- C Dumpy Stone (AWGK priv) (Doubtful)
- C Ketherrow Brow (AWGK priv; M. Leppington)
- C Wanthwaite M (BM ex AWGK) False ^{Cuprian} BM XRD
- C Driggith M (Zn-oliv)
- C Sandbed M (OK, rare)
- C Deer Hills (Zn-oliv)
- C Potts Gill (^{Zn-}oliv) - see Dumpy Stone card
- C Potts Gill Ba M (?) - poss error for ^{phillipsburgite}

Agardite-(ce)

Ccumb.

C Deer Hills

C Polts gill Copper M (2)

C Polts gill Bfc M (2)

Aukimbe

Cumb

C Carrock W M

C Grainsgill

C D. J.

Albite

Cumby

C Bowness Knot

Alloclase

Cumb

Long Comb M

Almandine

Cumby

c. Rosthwaite

Alstonite

Cumb

- E Brownley Hill M.
- E Nentsberry M.
- E Hagg M.

Alunite

Cumb

C Grainsgill

C Embleton Q.

Anatase

Cumch.

C Balliway Rigg

Andalusite ~~var~~
"Chiasolite"

Cumt

C Carrock Fell

C Dacre Castle

C Saddleback M

C Skiddaw

C Bannerdale M

C Glendaterria

W Water Crag

Anglesite

Cumt.

E Hudgillburn M
C Boerfell M
C Brandy Gill
C Driggith M
C Red Gill M
C Roughton Gill M
C Goldscope M
C Mexico M
E Kenthead M's

E Cross Gill
C Sandbed M
E Tynebottom M
E Brownley Hill M
C Silver Gill
C Balliway Rigg
C Ingray Gill
C Short Grain

Antydrute

Cumts

W Sandwith M

C Cotehill

C Langwathby

C Long Meg M

W Marchon M

W Barrowmouth M

Ankerite (see also siderite)
dolomite

Cumb

- | | |
|---------------------|-----------------|
| E Grassfield M | E Scar Ends L |
| E Gudhamgill M | E Smallcragh L |
| E Haggs M | E Stowe Craig M |
| E Hudgillburn M | E Tynebottom M |
| E Leehouse Well M | E Victoria V |
| E Nenthead Ms | E Windy Brow Vs |
| E Nentsberry M | C Carrock W M |
| E Rampgill M | W Beckermat M |
| E Raven Beck | W Florence Pit |
| E Rotherhope Fell M | W Goosegreen M |

Anker.

W Haile Moor M

W Mowbray M

W Postlethwaite's Eskett Fe M.

W Stockhowall Q (?)

C Roughton Gill M(?)

C Brandy Gill

C Smale Gill v's

E Carr's V.

C Force Crag

E Brownley Hill M

W Agnes M

C Roth Gill Ba M(?)

C Sandbed M(?)

C Hay Gill (?)

C Brae Fell M

C Red Gill M

C Short Grain (?)

Annabergite

Cumb.

Type Bottom mine (?)	E
Smallclough M.	E
Sandbeds (gill) M	C

Antimony, native

Cumb

- C Driggth M
- C Sand bed M
- C Force Crag M
- C Yewthwaite M
- C Goldscope M
- C Barrow M
- C Wet Swome Gill

Antlerite

Cumt

c Potts Gill Ba M

Apatite

Cumts.

- C Brandy Gill
- C Caldbeck Fells
- C Carrock Fell
- C Carrock W M
- C Causey Pike
- C Grainsgill
- C Long Comb M
- C Bowness Knot

Aphrosi dentate

Cumb

C Robin Hood M

Aragonite

Cumb

E Alston Moor
 E Bayle Hill Ms
 E Crag Green M
 E Flow Edge
 E Holyfield M
 E Hudgillburn M
 E Kent Force
 C Baron Cross Q
 W Oator Moor Fe Ms
 W Eskett M

W Goosegreen M
 W Kelton Q
 W Stockhowall Q
 C Roughton Gill M
 C Carrock WM
 W Haile Moor M
 C Threlkeld gran. Q's.
 W Yeathouse (Q?)
 W Postlethwaites Eskett Fe M.

E Tynebottom M (~~E~~)

W Florence Pt, Egremont

E Blagill M

W Rowrah Hall Q

C Park House Q

W Eskett (=Evered) Q

E Brownley Hill M

Ardenrite

Cumt

Brandy Gill (?) AWGK. v. doubtful (not on card)

Argentopyrite

Cumb.

E Tyne bottom M

Arsenides cloizite

Cumb.

c. Sandbed M.

Arsenic mins, unspec Cumb
W Eskdale (probably arsenopyrite)

Arseniosiderite

Cumb

- C Brandy Gill
- C grainsgill
- C Ingray Gill (Dubious)
- C Ketherrow brow
- C Short grain
- C Balliway Rigg

Arsenopyrite

- C Brandy Gill
- C Carrock Fell
- C Carrock WM
- C Causey Pike
- C Goldscope M
- C Ketherrow Brow
- C Potts Gill Ba M
- C Wanthwaite M
- C Grains Gill
- C Ingray Gill (??)

Cumby

- Long Comb M.
- C ~~Cobalt~~ M
- (some cobaltiferous)
- C Sandbed M
- E Tyneholton M
- C Driggth M
- C Wet Swine Gill
- W Water Crag
- C Potts Gill Copper M
- C Deer Hills

Aspy

C Burdell Gill

C Dale Head M

C Short Grain

Arsentsumebite

Cumb.

Roughton Gill M.

Arthursite,

Cum b.

c Long Comb / M (Error for bendalocite)
or its all Fe³⁺ analogue

Atacamite

Cumb

c Hay Gill (?) (AWGK)

c Potts Gill Ba M

c Roughton Gill M

Dugite

Cumb

C Castle Head

C Lorton

Aurichalcide

- E Nenthead Ms
- C Silvertop Q
- C Driggith M
- C Polts Gill Ba M
- C Roughton Gill M
- E Alston Moor
- E Windy Brow Vs
- C Park House Q
- C Sandbed M

Cumb

- C Silver Gill
- C Red Gill M
- C Ballinway Rigg

Azurnite

- E Alston Moor
- C Dry Gill M
- C Sandbed M (C)
- C Roughton Gill M
- C Driggith M
- W Eskdale
- C Fleetwith Q
- C Rigg Head Q

Cumb

- E Windy Brow V's
- E Cornriggs V
- E Allen's Cleugh
- E Copper Slitt V
- C Ballaway Rigg (??)

Baird's - pharmacosiderite

Cumb

- C Burdell Gill
- C Sandhead M
- C Balliway Rigg
- C Short Grain

Baryte (I)

- E Alston Moor
- E Ardale Head M
- E Blagill M
- E Brownley Hill M
- E Gamblesby Fell Vs
- E Hartside Ms
- E Horse Edge M
- ~~E Knock Ore Gill~~
- E Manor House M
- E Kentsberry M

Cumb

- E Park M
- E Raven Beck
- E Taylor's gro(ove) M
- C Ballway Rigg
- C Blencathra Ms
- C Brandlehow Ms
- C Brandy Gill
- C Driggith M
- C Dry Gill M
- C Force Crag

Ba Potts Gill Cu M
C Potts Gill Ba M
C Roughton Gill M
C Ruthwaite M
C Saddleback M
C Sandbed M
C Shout Gram
C Threlkeld M
W Beckermat M
W Cleator Moor Fe Ms
W Clifton
C Red Gill M.

W Pallaflat M
W Crowgarth M
W Dalmellington M
W Florence Pit (St. J)
W Gilcrux M.
W Goosegreen M
W Haile Moor M
W Mowbray M
W Parkside M
W Postlethwaite's Eskett Fe M.
W Winscales M
C Carrock W. M

Baryte (II)

Cumt

E Haggs M
 W Frizington
 W Moor Low Fe M
 C Blea Gill adit
 C Clints Q Moota
 W Salterhall Q
 E Newbiggin Fell
 C Bannerdale M

W Hazelholme M
 C Silvergill M
 C Smale Gill v/s
 C Potts Gill Cu mine
 C Glencoyne adit
 C Helvellyn M
 W Kelton Q
 C Glendervaterra M
 C Old Brandlehow M

Ba

W Ennerdale Hall

W Distington

W Lady Pit

W Longlands M

W Overend Q's

E Tynebottom M

C Deer Hills

C Low Pike

W Wyndham Pit

C Silvertop Q

W Agnes M

C Bird House

E Nentsberry Hagg L

E Rampgill M.

C Netherrow Brow

C Low Pike

C Burdell Gill

C Brae Fell M

C Ingray Gill

Barytocalcite

Cumb

- E Alston Moor
- E Blagill M
- E Rampgill M(?)
- E Hagg's M
- E Nentsberry M
- E Brownley Hill M
- E Taylor's Groove M
- E Clargill M

- E Middlecleugh V's(?)
- E "Howgillside" (material shifted from Blagill M)

Bayldonite

Ccumb

- c Brandy Gill
- c Driggith M
- c Potts Gill Ba M
- c Sandbed M
- c Comb Beck
- c Low Pike
- c Ingray Gill (??)

Beaverite

Cumt

- C Balliway Rigg
- C Brandy Gill
- C Driggith M
- C Dumpy Stone
- C Ingray Gill (??)
- C Ketherrow Brow
- C Potts Gill Ba M
- C Rigg Head Q.

Bechererite

Cumb.

CDriggith M.
c silver gill

Bendadite(?)

Cumb.

(Fe^{2+} analogue of arthurite" or its
all- Fe^{3+} analogue)

C Long Comb M. ($\frac{1}{2}$ "arthurite")

Berthierite

Cumby

C Wet Swine Gill

Beryl

Cumt.

C. Carrock W M

C. Walla Craig (? error for quartz)

Beta-quartz

(Unlikely at ambient T as low energy of inversion)

Cumh

See QUARTZ

c Armbath

Bendankite

- c Ballway Rigg
- c Brandy Gill
- c Driggith M
- c Tavy Gill M
- c Dumpy Stone
- c Grainsgill
- c Ingray Gill (??)
- c Ketherrow brow

Cump

- c Potts Gill Ba M
- c Wanthwaite M
- c Bannerdale Pb M(?)
- c Burdell Gill
- c Low Pike
- c Deer Hills
- c Raughton Gill M
(Iron crag)
- E Tynebottom M

C Sandbed M (?)

C Silver gill

C Short grain

Beyerite

Cumb

W Corney Fell

Bindheimike

Cumb

C. Wet Sworne gill

C. Driggth M (?)

C. Pott gill Ba M (?)

C. Sandked M (?)

C. Brae Fell M

C. Silver gill

C. Red gill M

C. Balliway Rigg

C. Ingray Gill

C. Short grain

Bismite

Cumt

C Carrock W M

E Cross gill

Bismuth, native

Cumb

- C Brandy Gill
- C Caldbeck Fells
- C Catrock W.M.
- C Long Comb M.
- W Water Crag

Bi minerals, unspecified

Cumb.

W Eskdale

Bismuthinite

Cumb

- C Brandy Gill
- C Caldbeck Tells
- C Carrock Tell
- C Carrock W M
- C Long Comb M
- W Alpha
- W Water Crag
- E Cross Gill

BTsmutite"

Cumb

W "Corney Fell" (Error for beyerite)
at least in part

Bismutoferrite

Cumby

W Corney Fell

Bituminous mins.

Cumb.

E Alston Moor ("Grown")
(Coal)

Bornite

Cumt

C Carrock W M

C Lake Head M(?)

C Driggith M

C Sandbed M(?)

C Thirlspot trial

C Balliway Rigg

Bottinoite

Cumby

Brownley Hill M.

Boulangerite

Cumt

C Carrock WM

C Barrow M

Bournomte

Cumb

- C Driggith M
- C Sandbed M
- C Barrow M
- C Force Crag M
- C Yewthwaite M
- C Goldscoe M
- E Brownley Hill M
- C Ballinay Rigg (?)

Braunite

Cumb.

W Wyndham Pt

Brewsterite

Cumbr.

C Roughton Gill M

Brian youngite

Cumb.

- E Tindalefell spider works [slag]
- E Brownley Hill M [type]
- E Smallclough M/L
- C Sandbeck M

Brochantite

Cumb.

- | | |
|--------------------|---------------------|
| C Driggith M | W Corney Fell |
| C Potts Gill Bar M | C Low Pike |
| C Raughton Gill M | C Dale Head M |
| E Tynebottom M | C Haltcliff Smelter |
| C Red Gill M | C Sandkeel M (?) |
| C Ballinay Rigg | E Crossgill |
| C Mexico M | E Cornriggs V |
| C Bannerdale Pb M | E Cashburn ✓ |
| W Ulpha M (?) | |

Brook

E Tindalefell spelter works [slag]

E Brownley Hill M

C Dry gill

C Brae Fell M.

C Silver gill

C Ingray gill

E Short grain

Bytownite

Cumt

c Eycott Hill

Cacoxenite

Cumby

@ Burdell Gill

Cadmium sulphide, amorphous. Cumb
of greenockite; hawkeyite.

E Rotherhope Fell M

E Tynebottom M

C Driggith M (?)

" " "
Calciodufite
= Calcian dufite = "β-dufite" Ccumb
C Brandy Gill

Calcutt (I)

- E Alston Moor
- E Ashgillfield M (?)
- E Bayle Hill M's
- E Blagill M
- E Calvert M
- E Cashwell M (?)
- E Cowper Dyke Heads M
- E Cross Fell M's
- E Donkburn M (?)
- E Garrigill M's

Cumb

- E Haggs M
- E Holmfild M
- E Hudgillburn M
- E Mid Leehouse Well M's
- E Nalthrass M
- E Nenthead M's
- E Nentsberry M
- E "Ogill Burn"
- E Old Haggs M
- E Rampgill M

Co.

- | | |
|-------------------------|-------------------------|
| E Rotherhope Fell M | C Roughton Gill M |
| E Scaleburn M(?) | C Wanthwaite M |
| E Smallcrag L | W Beekmet M |
| E Smithergill Head M(?) | W Bigg M |
| E Stowe Crag M | W Graft Pit |
| E Tynebottom M | C Embleton Q |
| E Victoria V | W Florence Pit (St. J.) |
| C Tay Gill M | W Frizington Parks M. |
| C Hay Gill | W Gillfoot Park M |
| C Helvellyn M | W Haile Moor M |
| E Brownter Hill M | W Hodbarrow M |

Calcite (II)

W Kelton Q
 W Mossbay M
 W Mowbray M
 W Pallaflat M
 W Postlethwaite Eskett Fe M
 W Stockhowhall Q
 C Catrock W.M.
 C Force Crag
 E Handsome Mea M

Cumb

W Wyndham Pit
 C Baron Cross Q
 C Flusco Q's
 W. Moor Row Fe M
 W. Clinto Pit
 C. Clinto's Q, Moota
 C Bramcrag Q
 W. Salterhall Q
 E. Long Crag

^{Ca}
C Scafell
C Silvergill M
C Driggth M
C Sandbed M
E Capleclough L.
C Armboth
W Crowgarth M
W Boat How
W Distington
C Park House Q

E Carr's V
E Brownley Hill M
W Agnes M
E Sailrigg Q
E Tindalefell works
[slag]
C Potts Gill Ba M. (?)
C Potts Gill Cu M
C Red Gill M
C Ballinwey Rigg

Caledonite

Cumby

- C Ballway Rigg
- C Brandy Gill
- C Driggith M
- C Red Gill M
- C Raughton Gill M
- C Sandbed M (?)
- C Short Gram
- C Haltcliff Smelter

- C Rigg Head Qs
- C Brae Fell M
- C Silver Gill
- C Ingray Gill

Campylite

Cumb

C Briggith M

C Dry Gill M

Carminite

- C Ballway Rigg
- C Brandy Gill
- C Driggith M
- C Dumpy Stone
- C Grainsgill (?)
- C Ingray Gill (??)
- C Ketherrow brow
- C Potts Gill Ba M
- C Wantthwaite M

Cumb

- C Bannerdale Pb M (?)
- C Deer Hills
- C Burdell Gill
- C Sandbed M
- C Short grain

Carpholite

Cumt

C Carrock W M (?) (AWGK) (doubtful)

Cassiterite

Cumb.

c Carrock M.

Census site (I)

Cumb

E Alston Moor
E Broad Mea V
E Flow Edge
E Hard Sike V
E Holyfield M
E Hudgillburn M
E Nenthead Ms
C Balluway Rigg
C Barrow M
C Blencathra Ms

C Braefell M
C Brathwaite
C Brandlehow Ms
C Brandy Gill
C Driggth M
C Force Crag
C Goldscope M
C Ingray Gill
C Keswick
E Middle Fell

Cumms

C Ketherrow Brow

C Paddy Gill

C Red Gill M

C Raughton Gill M

C Thornthwaite Ms

C Yewthwaite M

C Silvergill M

C Old Brandlehow M

C Threlkeld M

C Mexico M

C Newlands (High Snab Bank)

E Grassfield M

C Bannerdale Pb M

W Hazelholme M

E Cross Gill

C Shortrain

C Castlecock M

C Haltcliff Smelter

C Sandhead M

C Potts Gill Ba M

C Deer Hills

C Low Pike

E Brownkey Hill M

Cerussite (II)

Cumb

E Calvert M.

F Dosey M (?)

C Saddleback M

Cervantite

Cumt

c Robin Hood M

Cesàrolite,

Cumb

C Short grain
C Balliway Rigg

Chalcedonic silica

Cumt

- E Ashgillfield M
- E Brownley Hill M
- E Rotherhope Fell M
- E Tynebottom M
- C Balliway Rigg
- C Carrock Fell
- W Haile Moor M
- C Roughton Gill M
- C Glendera terra Valley

- C Greenside M
- C Soulby Fell (Carnelian)
- C Falcon Crag (agate)
- C Scar Crag (?)
- C Saddleback (old) M
- C Glencoyne adit
- C Driggith M
- C Sandbed M
- W Boat How (ag, chalc)

Chalced silica.

W St. Bees Head (agate, carnelian, jasper)

C Force Crag

E Calvert M.

E Dosey M (?)

Chalcocite

Cumh

- E Tyne Head Ms
- C Carrock W.M.
- C Mexico M
- E Cross Gill
- E Kenthead M's
- E Cornriggs V
- C Red Gill (?)

Chalcopyrite (I)

Cumb

- | | | | |
|---|---------------------|---|-----------------|
| E | Alston Moor | E | Scar Ends L |
| E | Clargillhead M (?) | E | Stowe Crag M |
| E | Gross Gill | E | Tynebottom M |
| E | Hiddenhole M (?) | E | Tyne Head Ms |
| E | Hudgillburn M | E | Windy Brow Vs |
| E | Leehouse Well M | C | Ballway Rigg |
| E | Mid Leehouse Well M | C | Blencathra Ms |
| E | Nenthead Ms | C | Brandy Gill |
| E | Rotherhope Fell M | C | Carrock Cu mine |

Cups.

- | | |
|-------------------|-----------------------------|
| C Dale Head M | C Embleton Q |
| C Driggith M | W Frizington Parks M |
| C Goldscope M | W Postlethwaite Eskett Fe M |
| C Hay Gill | C Carrock W. M. |
| C Netherrow brow | C Silver Gill M |
| C Old Bell Pit | C Sandbed M |
| C Potts Gill Ba M | C Saddleback M |
| C Red Gill M | C Old Brandlehow M |
| C Roughton Gill M | C Threlkeld M |
| C Wantthwaite M | E Raven Beck |
| | C Castle Carrock |

Chalcopyrite (II)

Cumt

- | | | | |
|---|---------------------------|---|---------------------|
| W | Crowgarth M | C | Glenderaterra |
| C | Newlands (High Snab Bank) | C | Robm Hood M |
| C | Oramcrag Q | W | Crossgill Pit |
| C | Clint's Q, Moota | W | Egremont ("Cu ore") |
| E | Newbiggin Fell | W | Boothle |
| C | Saddleback M | W | Eskdale |
| C | Bannerdale Pb M | W | Corney Fell |
| C | Scafell | W | Ulpha |
| C | Pott Gill Cu mine | C | Low Pike |
| C | Pott Gill Cu mine | | |

Cuppy

C Lorton

C Castle nook M

E Browney Hill M.

E Sir John's M

E Corn riggs V

E Tindalefell (?) [slag]

C Sandbeds gill M

C Short Grain

C Brae Fell M

C Ingray gill

Chenite

Cumb

- C Driggith M
- C Redgill M
- C Balliway Rigg
- C Shortgair

Chiastolite

Cumb

W Sharp Knott.
(Ski ddaw?)

Childrenite

Cumt

- C Causey Pike
 - C Long Comb mine
 - C Dole Head mine (FTIR)
- } (the same) (AWGR, 30 ?)

"China Clay"

Cumb

China Clay M ("A decomp. hypersthénite")

Chlorite, unspcc

Cumt

C Burdell Gill

C Force Crag

C Causey Pike

C Falcon Crag

C Long Comb M

C Hornboth

W Boat How

W Corney Fell

W Ulpha

Chromite

Cumb.

c Carrock Fell (error?)

c Lorton

"Chrysocolla"

Cumb

- C Ballway Rigg
- C Braefell M
- C Dale Head M
- C Hay Gill
- C Keswick
- C Kewlands
- C Old Bell Pit
- C Potts Gill Bar M
- C Thirlspot trial

- C Red Gill M
- C Raughton Gill M
- C Driggith M
- C Carrock W M
- C Carrock Cu M.
- C Goldscope M
- E Tyne Bottom M
- C Longlands Fell
- C Mexico M
- C Smale Gill V's

C Comb Beck

W Corney Fell

C Deer Hills

C Potts Gill cu M

C Silver Gill

C Ingray Gill

C Short Grain

C Comb Beck

W Corney Fell

C Deer Hills

C Potts Gill cu M

C Silver Gill

C Ingray Gill

C Short Grain

Cinnabar

Cumt

- C Silvertop Q
- W Cockermouth (new of)
- C Dry gill M
- C Polts gill M
- C Sandped M (?)
- C Bandy gill (?)
- E Nattergoss M
- C Red gill M (E) ✓ (?)
- C Silver gill
- C Ballway Rigg

Claudetite

Cumby

c. Wet Swine gold (Antimonian)

Clinochlore

Cumby

C Force Crag

Cobaltite

Cumb

C Long Comb M.

Cobaltocalcite

Cumb

E Tynebottom M (??)

Columbite

Cumf

Carrock W mine

Conichalcite

Cumfs

C Potts gill Ba M

Connellite

Cumby

C Mexico M (?)

C Sandbed M (?)

C Stoneycroft Mill [slag]

C Silver gill (?)

C Balliway Rigg

Copper mins. (unspecified) Cumb

- | | |
|----------------------------|--------------------------------------|
| E Cashwell M | C Salt Well M |
| E Copper Slits V(?) | C Wanthwaite M |
| E Cornriggs V | C Long Comb Mins |
| E Dog Burn | C Brandof Gill |
| E Long Katelock L | V ("Cu pitch") |
| E Nentsberry M | C Mexico M |
| E Stowe Crag M | ("grey oxide") |
| C Copper Plate M | C Saddleback M ("green Cu minerals") |
| C Dale Head M ("Cu pitch") | W. Hazelholme M |
| C Potts Gill Cu M | W Egremont |
| C Bird House | C Threapland |

Cu

C Silvergill M

C Smale Gill V's

C Thirlspot trial

C Birkside gill M

C Buttermere

C Robin Hood M

W Hazelholme M

W Aldale

C [Copperheap Bay - (dump)]

C Hay Gill ("Black Cu sulphides")

Copper, native

Cumb

C Driggith M

C Silver Gull
C Ballinway Rigg

C Sandbed M

C Deer Hills

C Stoneycroft Mill [slag]

E Tyne Bottom M

E Sir John's M

E Cross Gull

E Cornriggs V

Cordierite

Cum

C Glenderterra

C Force Crag

Conkite

Cumb.

C Mexico M.

C Bought on Gill

C Balliway Rigg

Cornwallite

Cumt.

- c Potts Gill Ba M (some phosphatian)
- C Low Pike (some v phosphatian) (some
is also arsen-pseudomal!)
- C Short Grain

Corona dute

Cumb

c Dry Gill M (?) (Most at least
= romane chite)

c Balliway Rigg

Corundum

Cumt.

c Carrock Fell

c Carrock W m (?)

Cosalite

Cumt

C Carrock W M

Covelline

Cumbs

- C Caldbeck Fells
- C Bannerdale Pb M
- E Kenthead M's
- E Cross gill
- C Driggth M
- C Sandbed M
- W Corney Fell
- C Brae Fell M

- C Silver Gill
- C Red Gill
- C Balliway Rigg
- C Short Grain

Crocodile

Cumib

C Roughton Gill M (? error)

Cryptomelane

Cumb

C Burdell Gill
C Balliway Rigg

Cuprite

Cumts

- | | |
|---------------------------|--------------------------|
| C Hay Gill | C. Potts Gill Cumine (?) |
| C Sandbed M | C Silver Gill |
| C Mexico M | C Red Gill |
| C Deer Hills | C Balliway Rigg |
| C Potts Gill Ba M | C Short Grain |
| C Low Scawdell | |
| C Stoneycraft Mill [slag] | |
| E Cornriggs V | |

Cuprotungstite

Ceamb.

W Corney Fell

Desclorizite

Cumb

c Brandy Gill (?) (AWGK) (v. doubtful)

Devil line

Cumb.

C "Brandy Gill" ERROR for malachite

E Tynebottom M

E Smallcleugh M

C Driggith M (?)

E Tindalefell [slag]

Dickite

Cumt

C Embleton Q

C Robin Hood M(?)

Digemite

Cumt

c Red Gill M

Diophtare

Cumb

c Potts Gill Ba M

Djurleite

Cumt

C Driggith M

C Sandbed M

C Dale Head M

C Red Gill M

Dolomite

- E Alston Moor
- E Ashgillfield M(?)
- E Garrigill Ms
- E Haggs M
- E Nent Head Ms
- E Nentsberry M
- E "Ogill Burn"
- E Old Haggs M
- E Tyne Head Ms

Cumt

- C Force Crag
- C Thorn Thwaite Ms
- W Beckermat M
- W Cleator Moor Fe Ms
- W Florence Pit (StJ)
- W Goosegreen M
- W Postle Thwaites Eskett Fe M
- C Carrock W M
- C Roughton Gill M(?)

C Brandlehow M

E Handsome Mea M

W Moor Row Fe M

W Stockhowhall Q (?)

W Clints Pit

C Langwathby

C Sandbed M (incl. Mn-ous)

W Crowgarth M

W Distinguon

E Brownley Hill M

C Hay Gill (?)

C Red gill M

C Balliway Rigg

C Short Grain (?)

Dufrenoyite
c Burdell gill

Cumt

Duffite

Cumb

- C Brandy Gill ("B" "L")
- C Driggith M
- C Low Pike
- C Short Grain

Elyite

Cumb.

C Driggith M.

C Honeycroft Mill [slag]

C Red Gill M.

C Short Green

Epidote

Cumt

C Crossthwaite

C Skiddaw

C Walla Crag

C Falcon Crag

C Wanthwaite Crag

C Bramcrag Q

C Cat Gill

C Fleetwith Q

W Boat How

Epsomite

Cumb

E Smallclough L

E Brownley Hill M.

Erythrite

Cumb.

- E Rotherhope Fell M C Sandbed M.
E Tynebottom M C Sandbed's Gill M.
C Force Crag
C Ingray Gill (ERROR for biol.)
C Long Comb M
E Hagg's M
E Brownley Hill M.
E Cross Gill
E Nentsberry Hagg's M

Ettringite

Cumb.

Tindalefell spelter works [slag]

Eulytime

Cumb.

W/Corney Fell

Telspar, unspec

Cumt.

C Brandy Gill

C Grants Gill

C Carrock WM

Ferberite

Cumb

See also wolframite

W Conney Fell

Ferrimolybdite

Ambs.

C Caldbeck Fells

C Catrook W.M.

W Water Crag

Fessitungstite

Cumb

C Brandy Gill (?)

F minerals unspecified
(prob = fluorite)

Cumb

W Eskdale

Fluorite (I)

Cumb

- | | |
|-----------------------|-------------------------|
| E Alston Moor | E Cross Gill |
| E Ashgillfield M | E Dozey M |
| E Bentyfield M | E Doukburn M |
| E Broad Mea V | E Dowgang M |
| E Brownley Hill M | E Green castle Vs |
| E Calverth M | E Gudhamgill M |
| E Cashwell M | E Hole Pastime V |
| E Cowper Dyke Heads M | E Metalband Sh |
| E Craig Green M | E Mid Lighthouse Well M |
| E Cross Fell Ms | E Nenthead Ms |
| C Brandthorpe M/s | C Scafell (?) |

F		C Quayfoot Q
E	Rampgill M	C Brandlehow Ms
E	Rotherhope Fell M	C Force Crag
E	Scaleburn M	W Beckermeth M
E	Slatesike M	W Cleaver Moor Fe Ms
E	Smallclough L	W David Lawny M
E	Smithergill Head M	W Florence Pit (St.)
E	Tynebottom M	W Longhorn Q
E	Tynehead Ms	W Ullcoab M
E	Victoria V	C Carrock W.M.
E	Whitesike M	C Old Brandlehow M
E	Windy brow V's	E Handsome Mea M

Fluorite (II)

Cumls

W. Lady Pt

W Overend Qls

W Water Crag

E Carr's V

C Loweswater M₃

C Poddy Gill

Fraipontite

Cumby

c silver gill

Fü löppite,

Cumb

~~C. Wet Swine Gill~~

C Wet Swine Gill (?)

collected?

Galena, "Lead ore" (I)

Cumb

E Allen's Clough V

E Alston Moor

E Ashgillfield M

E Bentyfield M

E Birchy Bank Vs

E Blagill M

E Broad Mea V

E Brownley Hill M

E Calverth M

E Capleclough L

E Cashwell M

E Clargillhead M

E Cowper Dyke Heads M

E Cray Green M

E Cross Fell Ms

E Cross Gill

E Dosey M

E Doukburn M

E Dowgang M

E Flow Edg

E Galligill Sike M (Ag)

- | | |
|----------------------|-----------------------------|
| E Grassfield M | E Hudgillburn M (Ag) |
| E Greengill Hush | E Knapside M |
| E Gudhamgill M | E Knock Ore Gill |
| E Hagggs M | E Leehouse Well M |
| E Handsome Mea M | E Little Gill Hush |
| E Hartside Ms | E Longclough M |
| E Hiddenhole M (Ag) | E Long Katlock L |
| E High Hundybridge L | E Metalband Sh |
| E Hole Pasture V | E Mid Leehouse Well M |
| E Holyfield M (Ag) | E Nattrass M |
| E Home Edge M | E Neathead Ms |

Galena, "Lead Ore" (II)

Cumb

E Nentsberry M
 E Park M
 E Rampgill M
 E Rotherhope Fell M
 E Scaleburn M
 E Sir John's M
 E Slatesike M
 E Smallclough L
 E Smithergill Head M
 E Taylors Grove M

E Tynebottom M
 E Tynehead Ms
 E Victoria V
 E Whitesike M
 E Windy Brow Vs
 C Ballway Rigg
 C Barrow M
 C Blencathra Ms
 C Brandelhow Ms
 C Brandy Gill
 C Newbottle (North Bank)

Pb

c Caldbeck Fells

c Driggith M

c Sandbed M

c Force Crag

c Goldscope M

c Helvellyn M

c Ingray Gill

c Old Brandlehow M

c Netherrow Brow

c Old Bell Pit

c Walla Crag

c Carrock mine

c Paddy Gill

c Potts Gill Ba M

c Red Gill M

c Roughton Gill M

c Saddleback M

c Thornthwaite Ms

c Threlkeld M

c Wanthwaite M

c Woodend M

c Yewthwaite M

c Mexico M

Galena, "Lead Ore" (III)

Cumt

C Bannerdale M.

W Hazelholme M

C Silvergill M

C Drygill M

C Braefell M

C Smale gill v/s (Pb ore)

C China Clay M (Pb ore) (?)

C Glenderaterra M

C Dead Beck ("Pb mine")

C Burthorpe ("Pb mine")

W Sosgill "Pb ore"

W High Nook.

W Crossgill mine

W Harrington

W Whitehaven

W Bottle

E Carr's V.

C Low Pike

C Silvertop Q u

Pb(III)

W Embleton

C Troutdale

C Loweswater M's

E Eden Braes L

E Brown gill

E Ash gill

E Dry Burn

E Daffenside Cleugh

C Castlenook M

E Thortergill (Pb mines)

C Sandbids gill M

C. Dale Head M

C Short Grain

Garnet, unspecified.

Cumb

- C Keswick
- c Saddleback M
- C Walla Crag
- C Falcon Crag
- C Armboth
- C Arm o' grain

Gartrellite
(Tsumconite grp)

Cumb

C Low Pike

Gersdorffite

Cumb.

E Kenthead M/s

E Cross Gill

E Tynebottom M

Gilbertite

Cumt

C Brandy Gill
C Carrock W M

Glaucodot

Cumb.

C Long Comb M

E Tyne bottom M

Goethite (See also "limonite")

Cumt

E Ardale Head M

E Slateside M (?)

C Burdell Gill

C Potts Gill Ba M.

C Wanthwaite M

C Roughton Gill M

C Silvergill M ("umber") (?) E Aglionby Beck

C China clay M ("umber")

C Driggill M

C Sandbed M

C Mexico M

W Corney Fell

C Low Pike ("limonite")

C Force Crag

C Poddy Gill (?)

E Aglionby Beck

E Hard Rigg Edge

E Tindale Fell

Goeth

- E Brownley Hill M
- C Potts Gill Cu M ("limonite")
- C Wanthwaite M ("limonite" (?))
- C Hay Gill ("goeth/limonite")
- C Brae Fell M.
- C Red Gill M.
- C Balliway Rigg
- C Ingray Gill
- C Short grain

Gold

Cumt

E Sir John's M

E Tyne Head M's(?)

C Brandlehow M's(?)

C Red Gill M (? "prob not")

C Goldscope M(?)

C Carrock W. M.

C Todd Gill

C Ingray Gill (Dubious)

C Swinburn Gill (Dubious)

Graphite

Cumby

- C Bannerdale
- C Bannerdale Pb M.
- C Borrowdale M
- C Keswick

- C Wanthwaite M
- C Scafell;

Greenockite

cf Hawleyite, Cadmium sulphide, ^{Cum} amorphous

E Blagill mine

C Sandked M (?)

"Grünlingite"

Cummb

= Joseite-A / bismuthinite or ingodite

C Carrock Fell (error for Joseite)

C Carrock W. M.

Gypsum

Cumb

- E Alston Moor
- E Brownley Hill M
- E Smallcragh L
- C Cocklakes M
- C Embleton Q
- W Hodbarrow Ms
- E Tyne Bottom M
- E Handsome Mea M
- C Corehill

- C Flusco Q's
- C Langwathby
- W Marchon M
- W Barrowmouth M
- C Wet Swine Gill
- E Nenthead M's
- E Nentsberry Hagg L
- E Tindalefell [slag]

Haematite (+ = assumed) (I)

Cumb

E Ardale Head M

E Nest M's

E Slateside M (?)

C Carrock Fell

C Eskdale

C Keswick

W Agnes M +

W Barbara M +

W Beckermat M

W Bigrigg M

W Birks Iron Ore Works +

W Cleator Moor Fe M's +

W Clints Pit

W Croft Pit +

W Crossgill Pit +

W Crowgarth M

W Dalmeilington M +

W David Lawn M

W Egremont

W Esketh M +

Fe

W Eskett Park M +	W Kelton Fell Fe Ms
W Fletcher Pit +	W Knockmorton Fe Ms
W Florence Pit (S.J.)	W Lady Pit +
W Florence Pit (Eskett) +	W Leconfield Pit +
W Frizington Parks M	W Longlands M +
W Gillfoot Park M +	W Lonsdale M +
W Goosegreen M	W Margaret Fe M +
W Haule Moor M	W Montreal Fe M +
W High Crossgill Pit +	W Moor Row Fe M
W Hodbarron Ms	W Mossbay M +
W Hope Pit +	W Mowbray M

Haematite (II)

Cumt

- | | |
|-------------------------------|-------------------|
| W Pallaflat M | W Townhead Pit + |
| W Parkhouse M + | W Ullcoab M + |
| W Parkside M | W Winscales M |
| W Postlethwaite Fe M + | W Woodend M + |
| W Postlethwaite's Eskett Fe M | C Roughton Gill M |
| W Sikehouse M + | C Ore goup |
| W Sir John Pit + | E Ardale Head M |
| W Southam M + | W Salterhall Q |
| | C Long Combs M |

W Kelton Q.
W great Hall gill
C Little Mell Fell
W Clints Q's, Egremont.
W Lady Pit
W Longlands M
W Overend Q's
W Wyndham Pit
W Agnes M

W Berrier M
W Coronation pit
W Crossfield M
W Helder M
W Holebeck M
W Jacktrees M
W Lamplugh M
W Rowfoot M
W Salter Hall M
W Todholes open cast
W Whinnah pit
W Winder gill M
W Falcon M
W High House

Haem (II)

Cum

W Postlethwaite's Moor Row M

W Ulbank M

C Burdell Gill

C Balliway Rigg

C Short Grain

Halotrichite

Cumb

E. Smallcleugh

Harmotome

Cumb

E Brownley Hill M

E Nentsberry Hags M

Hausmannite

Cumt

W Wyndham pit (mine)
W Bignigg

Hedyphane

Cumb.

C Brandy Gill

Hemimorphite

Cumb

- E Alston Moor
- E Farnberry M
- E Holyfield M
- E Nattrass M (?)
- E Nenthead Ms
- C Driggith M
- C Raughton Gill M
- C Ballway Rigg
- C Sandbed M ✓
- C Bannerdale Pb M

- C Glencoyne adit
- W High Nook (?) ("calamine")
- C Braefell M
- C Castlenook M
- C Red Gill M
- E Bayle Hill M
- E Nenthead [Field] M
- E Nentsberry Ms
- C Silver Gill

C Balliway Rigg
C Ingray Gill (??)

M. ...

Hinsdaleite

Cumb.

^cSaddleback M.

Hydrocarnosite

Cumb

C Ballway Rigg

C Braefell M

C Red Gill M

C Driggith M (?)

C Caldbeck Fells

C Short Gaim

C Silver Gill

Hydrohaematite

Cumb

± Ardale Head M.

Hydromagnesite

Cumby

E Brownley Hill M.

Hydrozincate

Cumb

£ Hudgillburn M

E Tynebottom M

C Barrow M

C Bannerdale Pb M

E Blagill M

E Tindalefull spelter works [slag]

E Brownley Hill M

E Alston Moor

E Smallcragh M/L

E Carr's V

C Sandbed M(?)

C Red Gill M

C Balliway Rigg

1 elite

Camp.

Force Crag
Castlenook M (?)

Ilmenite

Cumb

C Carrock Fell

Ingodite Bi_2Te_3

Cumb.

cCarrock W mine

c Brandy Gill

48 Iron minerals, unspec.

Cumb

E Brownside M.

E Holyfield M

C Cairrock Cu M.

C Scale Force.

W Corney Fell

E Tynebottom M

W Crag

Jamesonite

Cumt.

C Carrock W M

C Web Swine gill

Jarosite

Cumb.

- E Tynebottom M (?)
- C Ballway Rigg
- C Brandy Gill
- C Burdell Gill
- C Dumpy Stone
- C Grains Gill
- C Ingray Gill (??)
- C Netherrow brow

- C Potts Gill Ba M
- C Wanthwaite M
- C Embleton Q
- C Bannerdale Pb M
- E Brownley Hill M
- C Hay Gill (?) "
- C Silver Gill

Joseite

Cumt

C Carrock Fell

C Carrock W. M.

Kaolinite

Cumt

c High Pike

c Glenderaterra

W Corney Fell

Kermesite

Cumby

Wet Swine Gele

Kipushite

Cumb

C Low Pike

Kintoreite

Cumb

c Balliway Rigg

Ktenasite [+ Zn-analogue] Cumb

2 Nentsberry M

E Brownley Hill M (Zn-analogue)

E Smalldough M/L (C?) + Zn-analogue)

Lanarkite

Cumt

C Braefell M

C Red Gill

C Balliway Rigg

C Roughten Gill (? = Balliway Rigg)

C Silver Gill

C Short Grain

Langite

C Mexico M.

C Bannerdale Pb M

C Driggith M

W Alpha M

W Eskdale (Sprothow Gill)

C Haltcliff Smelter

C Silvergill M

C Force Crag M.

Cumt.

C Sandbed M

C Red gill M

C Short Grain (?)

Laurentthalite

Ccumb

c Driggall M (smelter)

Lead, native

Cumb

E Alston Moor

Leadhillite

Cumt

- C Ballinay Rigg
- C Braefell M
- C Driggith M
- C Red Gill M
- C Short Grain
- E Tindalefell (?) [slag]
- C Roughton gill M
- C Silver Gill

Lepidocrocite

Cumb

E Tindalefill [slag]
C Burdell Gill
C Balliway Rigg

Libethenite

Cumby

c Potts Gill Ba M

Limonite " (=goethite)

Cumt

- | | |
|-----------------------|-----------------------------|
| E Aglionby Beck | E Haggs M |
| E Alston Moor | E Hartside Ms |
| E Ardale Head M | E Hole Pasture V |
| E Blagill M | E Horse Edge M |
| E Cooper Dyke Heads M | E Knapside M |
| E Craig Green M | E Knock Ore Gill |
| E Cross Gill | E Little Gill Hus! |
| E Gamblesby Fell Vs | E Manor House M |
| E Grassfield M | E Metalband Sh. |
| | E Nenthead Ms |

Lim

E Nentsberry M

E Nest M_s ✓

E Park M

E Slatesike M

C Burdell Gill

C Carrock Fell

C Ingray Gill

C Roughton Gill M (Water)

C Baron. Cross Q

Ⓢ Clinf's Q, Moota

E Tynebottom M

C Driggith M

C Sandbed M

C Poddy Gill

E Smallcleugh

C Low Pike

C Potts Gill Cu M

C Potts Gill Ba M

Linnaitte

Cumb.

E Rotherhope Tell M

E Tynebottom M ()

C Ballinway Rigg

C Braefell M

C Brandy Gill

C Driggith M

C Ingray Gill (?)

C Old Bell Pit

C Paddy Gill

C Red Gill M

C Roughton Gill M

C Sandbed M ()

C Silver Gill M

C Goldscope M

C Mexico M.

C Newlands (High Snab
Bank)

C Bannerdale Pb M

C Smale Gill V¹/₂

C Short grain

C Halclyff Smelter [slag]

C Potts gill Ba M

C Force Craig M

E Smithergill Head M

E Tindalefell smelter works [slag]

C Blencathra Ms.

C Rigg Head Q's

Lindgrenite

Cumb

C Brandy Gill (?) (ANGK - suspect)

Löllingite

Combs

C Causey Pike/Long Combs M

C Potts Gill Ba M ✓

Macphersonite
(Biaxial).

Cumt

C Red gill

C Short grain

Magnesite

Cumb.

C Longwathby

Magnetite

Cumb

c Carrock Fell

Malachite (I)

Cumt

- E Cashwell M
- E Cornriggs V
- E Cross Gill
- E Hartside Ms
- E Knapside M
- E Raven Beck
- E Tyne Head Ms
- C Ballway Ligg
- C Blencathra Ms
- C Braefell M

- E Copper Slits V.
- C Brandy Gill
- C Carrock Cu mine
- C Dale Head M
- C Driggith M
- C Hay Gill
- C Ingray Gill
- C Old Bell Pit
- C Potts Gill Ba M
- C Red Gill M
- C Raughton Gill M

Malach

- | | |
|---------------------|-----------------------|
| E Allen's Cleugh V | C Potts Gill Copper M |
| C Sandbed M | C Smale Gill V's |
| C Silver Gill M | C Glenderaterra |
| C Carrock W M | W Eskdale |
| C Threlkild M | C Comb Beck |
| E Tyne Bottom M | W Ulpha M |
| W Crowgarth M | E Windy Brow V's |
| C Longlands Fell | W Corney Fell |
| C Mexico M | C Park House Q |
| C' Clint's Q, Moota | C Force Craig |
| E Newbiggin Fell | C Low Pike |
| C Bannerdale Ph M | |

Malachite (II)

Cumby.

E. Brownley Hill M.
E Short grain

Manganese mins, unsp. spec.

Cumt.

C Brandlehow Ms

C Roughtongill M.

W Pallaflar M

W Overend Q's

W Corney Fell

C Low Pike (oxide stain)

C Knott

Manganite

Cumb

- C Burdell Gill
- C Force Crag
- C Saddleback M
- W Wyndham M.
- C Ballway Rigg (?)

Marcasite

Cumb

- E Birchy Bank Vs
- E Calvert M
- E Cross gill
- E Garsingill M's
- E Greencastle Vs
- E Rotherhope Fell M
- E Sir John's M
- E Smithergill Head M(?)
- E Tynebottom M (incl As-rich)
- C Carrock Fell
- C Potts Gill M
- C Carrock WM
- C Long Comb M
- E Kenthead M's
- E Brownley Hill M.

Mattheddleite

Cumb

C Braefell mine.

C Red Gill M

C Short Grain

C Balliway Rigg, Roughton Gill

C Roughton Gill M

Melacombe

Cumt.

C Hay Gill

C Roughton Gill M.

C Potts Gill Ba. M.

Melanterite

Cumt

F Small clough L

E Brownley Hill M.

Metavoltine

Cumk

W. Brigham Qls

Micas, unspec.

Cumb

- c Brandy Gill
- c Saddleback M
- c Grainsgill
- c Bannerdale

Microcline

Cumb.

C Catrock W mine

Millerite

Cumb.

- C Aspatia (Oughtershaw open cast)
- E Brownley Hill M

Mimetite

Cumb

C Ballinay Rigg
 C ~~braefell~~ M
 C Brandy Gill
 C Caldbeck Fells
 C Carrock Fell
 C Driggith M
 C Tomy Gill M
 C Ketherrow brow

C Roughton Gill M
 C Saddleback M
 C Tod Gill
 C Mexico M
 C Bannerdale Pb M (?)
 C Burdell Gill
 C Arm d grain (?)
 C Low Pike
 C Deer Hills

Mimel.

- C Brae Fell M
- C Silver gill
- C Red gill (?)
- C Ingray gill
- C Short grain

Minium

Cumb

E Alston Moor

C Saddleback M. (?)

E Nenthead (Smelt Mill - on slag)

Mixite,

Cumb.

^WCorney Fell [?]

Molybdate MoO_3

Cumb

Carrock W Mine (??)

Molybdenite

Combs

- C Long Comb M
- C Brandy Gill
- C Caldbeck Fells
- C Caldew River
- C Carrock Fell
- C Carrock W M.
- C Keswick
- C Mexico M
- W Water Crag

Mo minerals unspec.

Cumb

(Prob = molybdenite)

W. Eskdale

Montetrisaite

Cumby.

polym of redgillite

c Balliway Rigg (?)

Mofframbe

Cumb

c Brandy Gill

C Baltiway Rigg

c Ketherrow Brow

C Ingray Gill

C Short Grain

C Arm o' Grain

C Roughton Gill (Iron Crag)

C Low Pike

C Brae Fell M

c Red Gill M

Muscovite

Cumt.

C Grainsgill

C Carrock W. M

C Long Comb M

C Dale Head M

Nacrite

Cumt

C Carrock Fell

C Carrock W.M (?)

Namuwite

Cumb

E Smallclough M
C Driggith M
C Forde Crag M

Natrojarosite

Cumt

C Wanthwante M

Ni minerals, unspecified

Cumby

Ⓒ Park House Q

Niccolite = Nickelite

Cumt

c Newlands (High Snab Bank) (?)

Olivineite

Cumb.

- E Tyne Head Ms
- C Carrock W. M
- C Dry Gill M
- C Goldscope M
- C Newlands
- C Potts Gill Br M
- C Sandbeds Gill M
- C Ingray gill (??)

Opal

Cumt.

E Rotherhope Fell M

Orthoclase

Cumb.

C Armboth

C Burdell gill

Palygorskite

Cumt.

C Potts gill Ba M ("mineral leather")

Parasymplesite

Cumb

- C Wet Swine Gill
- E Tynebottom M (mix 10 symple)
- C Sandbeds Gill M
- C Burdell Gill

Pharmacolite

Cumb.

E. Tynebottom M

Pharmacosidente

Cumb

- C Burdell Gill
- C Dumpy Stone
- C Ingray Gill (???)
- C Ketherow Brow
- C Potts Gill Ba M
- C Wanthwaite M
- C Dry Gill M
- C Catrock W M

- C Deer Hills
- C Potts Gill Cu M
(?)

Philipsburgite

Cumt

C Potts Gill Box M

C Low Pike

C Driggith Mine

C Sandbed M.

Phosgene
c Driggith M

Cumt

Phosphohedylphane

Cumb.

C Balliway Rigg
C Short Grain

Picropharmacolite
E Tynebottom M (?)

Cumb

Plagioclase

Cumh

C. Armboth (oligoclase)

Planchette

Cumb

c Driggith M (?) (AWBK) (v. doubtful)

Plumbogummite

Cumt

- c Dry Gill M
- c Roughton Gill M
- c Tod Gill
- c Burdell Gill
- c Ballway Rigg

Plumbogjarosite

Cumt

c Balliway Riggy (?)

c Dumpy Stone

c Netherrow Brow

c Wantthwante M

c Short Grain

Plumboselenite

Cumb

C Balliway Rigg

Posnjakute

Cumt

W Eskdale (Sprothow gill)

C Silvergill M.

C Driggith M

Powellite

Cumb

C Carrock mine

Pseudomalachite

Cumt

C Potts Gill Ba M

C Caldbeck Tels

C Low Pike (arsenation)

C Driggith M

C Saddleback M.

"Psilomelane" ^{usually} (=romanachite) Cumb

- | | |
|--------------------|--------------------|
| C Ballway Rigg (?) | C Long Comb M |
| C Brandy Gill | C Saddleback M. |
| C Burdell Gill | C Sandbed M |
| C Dry Gill M | C Mexico M. |
| C Force Crag | C Ingray Gill (??) |
| C Roughton Gill M. | |
| C Driggith M | |
| C Red Gill M. | |
| C Potts Gill M | |

Pyrite (I)

Cumb

- | | |
|-----------------------|----------------------|
| E Alston Moor | E Nentsberry M |
| E Birchy Bank Vs | E Raven Bede |
| E Blagill M | E Rotherhope Fell M |
| E Calvert M | E Scar Ends L |
| E Cooper Dyke Heads M | E Sir John's M |
| E Cross Gill (?) | E Smallclough L |
| E Garrigill Ms | E Smithergill Head M |
| E Greencastle Vs | E Stowe Crag M |
| E Leehouse Well M | E Tynebottom M |
| E Nenthead Ms | E Windy Brow Vs |

Pyrite I

- | | |
|-------------------|-------------------------------------|
| C Blencathra Ms | C Embleton Q |
| C Brandlehow Ms | W Mowbray M |
| C Caldbeck Fells | C Carrock W.M. |
| C Force Crag | C Dale Head M |
| C Hay Gill | C Barrow M |
| C Potts Gill Ba M | C Threlkeld M |
| C Thornthwaite Ms | E Handsome Mea M |
| C Wanthwaite M | W Postlethwaite's Eskett
Iron M. |
| C Woodend M | C Scafell |
| C Yewthwaite M | C Haddacomb Hole |
| C Long Cumb M | E Cross Gill. |

Pyrite (II)

C Driggith M

C Sandked M

W Crowgarth M

W Harrington

W Corney Fell

W Eskdale

C Lorton

E Brownley Hill M

Cumb

C Poddy Gill (?)

C Silvertop Q

E Dosey M (?)

C Potts Gill cu M.

C Burdell Gill

C Balliway Rigg

C Ingray Gill

C Short Grain

Pyrolusite

Cumb

- c Burdell Gill
- c Sandbed M ("wad")
- c Balliway Rigg (?)
- c Driggith M
- c Brandlehow M
- W Wyndham pit
- c Scar Crags
- c Potts Gill Cu M ("wad")
- c Ingray Gill (??)

Pyromorphite

Cumt

- E Aglionby Beck
- C Balluway Rigg
- C Braefell M
- C Brandy Gill
- C Caldbeck Fells
- C Driggith M
- C Ingray Gill
- C Old Brandlehow M
- C Paddy Gill

- C Red Gill M
- C Raughton Gill M
- C Tod Gill (?)
- C Sandbed M
- C Dry Gill
- C Goldscope M
- C Barrow M
- C Blea Gill adit
- C Mexico M
- C Newlands (High Seabank)

Pyrophanite
 MnTiO_3

Camb.

W. Florence mine

Pyrrhinite

Cumb

- E Alston Moor
- E Smithergill Head M
- C Embleton Q (?)
- C Carrock W M
- C Dale Head M
- E Tynebottom M
- C Armboth
- W Corney Fell
- W Eskdale

Quartz (I)

Cumb

- E Aglionby Beck
- E Alston Moor
- E Ashgillfield M
- E Bentyfield M
- E Birchy Bank Vs
- E Blagill M
- E Broad Mea V
- E Brownby Hill M
- E Calver M
- E Cashwell M

- E Clargillhead M
- E Cornwigg V
- E Cowper Dyke Heads M
- E Gray Green M
- E Cross Fell Ms
- E Cross Gill
- E Dozey M
- E Doukburn M
- E Flow Edge
- E Grassfield M
- E Greencastle Vs

Q

- E Gudhamgill M
- E Hagggs M
- E Hiddenhole M
- E Hole Pasture V
- E Holyfield M
- E Hudgillburn M
- E Knappside M
- E Leehouse Well M
- E Little Gill Hush
- E Metalband Sl
- E Mid Leehouse Well M
- E Naffrass M

- E Nenthead Ms
- E Nentsberry M
- E Rampgill M
- E Rotherhope Fell M
- E Scaleburn M
- E Scar Ends L
- E Slatesike M
- E Smithergill Head M
- E Stowe Craig M
- E Tynebottom M
- E Tyne Head Ms

Quartz (II)

- E Victoria V
- E Whitesike M
- E Windy Brow V's
- C Ballway Rigg
- C Braefell M
- C Brandlehow M's
- C Brandy Gill
- C Burrill Gill
- C Caldbeck Tells

Cumb

- C Carrock Fell
- C Carrock Cu mine
- C Carrock W M
- C Causey Pike
- C Driggith M
- C Tary Gill M
- C Force Crag
- C Hay Gill
- C Ingray Gill
- C Ketherow brow

Q^h

W Keltonfell Fe M's.

C Old Bell Pit

C Paddy Gill

C Potts Gill Ba M

C Red Gill M

C Robin Hood M

C Roughton Gill M

C Thornthwaite M's

C Wanthwaite M

C Yewthwaite M

W Beckermat M

C Bramcrag Q

W Cleator Moor Fe M's

C Embleton Q

W Florence Pit (St.)

W Frizington Parks M

W Goosegreen M

W Haile Moor M

W Mowbray M

C Sandbed M

C Grassgill

C Coomb Height

C Helvellyn

Quartz (III)

W Agnes M
 E Handsome Mea M
 W Crowgarth M
 C Walla Crag (?)
 W Moor Row Fe M
 W Pallaflat M
 C Longlands Fell
 C Mexico M
 C Long Comb M
 C Bannerdale

Cumbs

W Postlethwaite's Eskett
 Iron mine
 W Knockminton Iron Mines
 C Quayfoot Q
 C Bannerdale Pb M
 C Scafell
 W Hazelholme M
 C Silvergill M
 C Smale Gill V's
 C China Clay M

Qtr

C Glencoyne adit

C Helvellyn M.

C Cat Gill

W St Bees Head

C Goat Crag

C Armboth (including "B-quartz")

C Glenderaterra

C Arm o' gram

W High Nook

C Bowness Knot

W Boat How

C Comb Beck

C Wet Swine Gill

W Ulpha M.

W Corney Fell

W Boole

W Eskdale

W Water Crag

C Low Pike

C Deer Hills

E Carr's V

Quartz (IV)

Cumbs

C Brocklecrag

C Sale Fell

C Potts Gill Cu M

C Sandbeds Gill M

C Short Grain

C Goldscope M

C Dale Head M

Quetite

Camp

ched Gill M

Ramsbeckite

Cumb.

C. Sandbed M

C. Driggith M

C. Silver gill

Rancieite

Cumb.

W Ullcoab M

Raspite

Cumb

C. Carrock M.

Redgillite $\text{Cu}_6(\text{OH})_{10}\text{SO}_4 \cdot \text{H}_2\text{O}$ Cumb
of Montetrisaite

C. R. Silver gill M
(C. R. Red gill B. M. M. (?)
C. Balliway Rigg ?

Reichenbachide

Cumpr

~~Low Pike~~ Error for P-cornwallite

Rhodochrosite

Cumt.

W Wyndham M.

C Newlands (?)

C. Burdell Gill

Romanachite

Cumob

C Burdell Gill

C Dry Gill

C Red Gill

C Balliway Rigg

Rooseveltite

Cumby

Water Crag(?)

Rosasite

Cumt

- c Ballway Rigg
- c Driggith M
- c Potts Gill Bar M
- c Sandbed M
- c Silvergill M
- c Roughton Gill M (?)

Russellite

Cumby

W Corney Fell

Rutile

Cumb.

C Bannerdale

C Long Comb M.

C Lorton

C Carrock M.

Scheelite

Comb

- C Brandy Gill
- c Caldbeck Fells
- C Carrock W M
- C Causey Pike
(= Long Comb mine)
= Scar Crag M.

W Corney Fell

Schulenbergite

Cumf

- E Small cleugh M
- E Nentsberry Hagg M
- E Tindalefell M [slag]
- C Driggorth M
- C Sandbed M
- C Silver gill

Schulzeite

Cumt

c Deer Hills

Scorodite

- C Burdell Gill
- C Dumpy Stone
- C Grains Gill
- C Ingray Gill (??)
- C Ketherrow brow
- C Potts Gill Bar M
- C Wanthwaite M
- C Brandy Gill
- C Carrock W M

Cumb

- C Long Comb M
- W Water Crag
- C Deer Hills
- C Sandbed M. (?)
- C Dale Head M ?
- C Balliway Rigg

Scotlandite

Cumb.

c Ballinway Rigg.

c Shork-graen

c Raughton Fell (? = Ballinway Rigg)

c Red gill M

Segnitite

Cumb.

c Dry Gill

c Sandbed M

c Balliway Rigg

Semseyite

Cumh

C Wet Swine Gill

Senarmontite

Cumh

c Wet Swine gel

Sericite

Cumb

E Cross gull

E Rotherhope Fell M

C Grass gull

Serpentine

Cumt

C Driggith M

E Tindalefell spelter
works [slag]

C Potts gill Ba M

C Red gill M

E Tynebottom M

E Hagg M

E Smallclough M

E Nentsberry M

C Force Crag M

E Brownley Hill M

Sidenote (see also ...)

Cumb

E Alston Moor
 E Cross Gill
 E Foreshield
 E Hagg M
 E Handsome Mea M
 E Hudgillburn M
 E Little Gill Hush
 E Nenthead Ms
 E Nentberry M
 E Rampgill M

E Rotherhope Fell M
 E Slatesike M
 E Smithergill Head M(?)
 E Whitesike M
 C Carrock W M (?)
 W Beckermat M
 W Hodbarrow Ms
 W Postlethwaite's Eskott Fe M.
 W Stockhowhall O. (?)
 C Force Crag

Sider

E Brownley Hill M.

C Dale Head M (IR)

Silver, native

Cumb.

ched gill M. (?)

C Driggith M

C Short Grain

C Force Crag M.

C Balliway Rigg

Skutterudite

Cumb

C Long Comb M

Smaltite

Cumby

- C Force Crag (?)
- C Long Combs M (?)

Smithsonite

Cumt

- | | |
|--------------------|-----------------------------|
| E Alston Moor | E Smallcragh L |
| E Bayle Hill Ms | C Driggith M |
| E Farnberry M | C Potts Gill Ba M |
| E Grassfield M | C Raughton Gill M |
| E Hagg M | C Sandbed M |
| E Holyfield M | W High Nook(?) ("calamint") |
| E Hudgillburn M | E Windy Brow Vls |
| E Naffrass M (?) | E Blagill M |
| E Nenthead Ms | E Brownley Hill M. |
| E Nentsberry M (?) | |

Smolts

C Silvertop Q

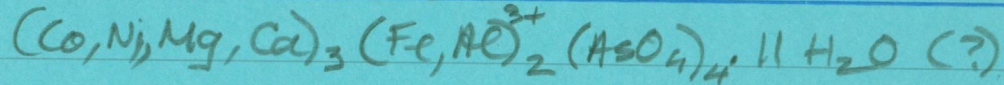
E Middle Fell

E Cowslitts V

C Silver Gill

Smolianinovite

Cumb



Tynebottom M.

sodium-pharmacosiderite Cumb

Sandbeds gill M

Spangolite

Cumb

C Stoneycroft mill [slag]

Sphalerite, "Zinc Ore" (I)

Cumt

E	Alson Moor	E	Doukburn M
E	Bentyfield M	E	Dowgang M
E	Blagill M	E	Flow Edge
E	Brownley Hill M	E	Foreshield
E	Calvert M	E	Garrigill M ^s
E	Capleclough L	E	Grassfield M
E	Cashwell M	E	Greengill Hush
E	Cowper Dyke Heads M	E	Gudhamgill M
E	Cross Fell M ^s	E	Haggs M
E	Darey M	E	Handsome Mea M

2n

- | | |
|-----------------------|--------------------|
| E High Hundy bridge L | E Taylor's Grove M |
| E Little Gill Hush | E Tynebottom M |
| E Longcleugh M | E Tyne Head Ms |
| E Metaband Sh. | E Victoria V |
| E Nenthead Ms | E Whitesike M |
| E Nentsberry M | C Barrow M |
| E Rampgill M | C Blencathra Ms |
| E Rotherhope Fell M | C Brandlhow Ms |
| E Scaleburn M | C Brandygill |
| E Smallcleugh L | C Driggill M |
| E Smithergill Head M | C Force Craig |

Sphalerite, "Zinc ore" (II), Cumb

- | | |
|--------------------|-----------------------------|
| C Netherrow brow | C Fewthwaite M. |
| C Paddy Gill | C Sandbed M |
| C Potts Gill Bar M | C Carrock W. M. |
| C Red Gill M | C Bannerdale M |
| C Raughton Gill M | C Old Brandelhow M |
| C Thornthwaite Ms | C Clifts. Q, Moota |
| C Threlkeld M | C Addacombs Hole |
| C Wanthwaite M | C China Clay M (Zn ore) (?) |
| C Woodend M | C Wet Swine Gill |

2n5

E Carr's V

C Castlenook M.

E Nentsberry Hagg L

C Brae Fell M

C Balliway Rigg

C Short Grain

Stannite

Cumb

Carrack W Mine (?)
(s)

Seaside

Cumt.

W Egremont

Sibiconite,

Cumb.

C Wet Swine Gill

Stibnite

Cinnab.

- C Carrock Fell
- C Robin Hood M
- C Troutbeck Str.
- C Wanthwaite M
- C Helvellyn
- C Wet Swine Gill

Stolzite

Cumb

- C Brandy Gill
- C Carrock W M.
- C Force Crag (?)
- C Paddy Gill

Strengite

Cumt

c Burdell Gill

Strontianite

Cumb

E Alston Moor
Brownley Hill M.

Sulphur, Native

Cumb

E Abston Moor

E Smallcragh L

C Wet Swine gill

E Snittergill Head M

E Brownley Hill M

E Tynebottom M

C Brae Fell M (?)

C Silver gill

C Red gill M

C Balliway Rigg
C Short grain

Susan mte,

Cump

C Red Gill

C Short Jam

C Silver gill

C Balliway Rigg

Switzerite

Cumb

Burdell gill

Symplesite

Cumb

E. Tynebottom M (mix with para-)
C Carruck W. M
C Nether Row Brow
C Sandbeds Gill M
C Wanthwaite M

Talc

Cumt

c Brandy Gill

c Caldbeck Fells

Tennantite

Cumb

C Balliway Rigg (?-"doubtful")

Tenorite

Cumt

C Potts Gill M.

C Low Scawdell

C Balliway Rigg

C Short Grain (?)

Tetradymite

Amib

C	Brandy	Gill	} Error for Joserite
C	Carrock	Tell	
C	Carrock	W M	

Tetrahedrite

Cumt.

C Sandbed M

C Driggith M

C Balliway Rigg?

Thaumasite

Camp

C Embleton Q

Titanite (sphen)

Cumf

C. Lorton

Topaz

Camp.

W(Eskdale) →
W Water Crag

Tourmaline

- c Carrock Fell
- c Force Crag
- c Poddy Gill
- c Saddleback M
- c Carrock W.M
- c Coomb Height
- c Threlkeld Granite Q's
- c Scar Crag (Schorel)
- c Bannerdale

Cumt

- c Burdell Gill
(Schorel)
- c Addercomb Hole
(Schorel)
- c Long Comb M
- W Eskdale

Tremolite

Cumt

C Carrock WM

Tsumebite

Cumb

C Roughton Gill ()

C Carrock Fell (error for Roughton Gill)

Tungstate

Cumt

c Brandy Gill (?)

c Carrock W M

Tyrolite

Cumt

c Potts Gill Ba M

Ullmannite

Cumby

C Barrow M

E Brownley Hill M.

Uraninite

Cumt.

c. Gramsgill

Vanadinite

Cumt

- c Brandy Gill (OK, only AWGK's material suspect)
- c Carrock W M (?) (AWGK) (v. doubtful)
- c Potts Gill Ba M
- c Red Gill M.
- c Ingray Gill

Variscite

Comb

C Long Comb M

Vivianite

Camp

c. Burdell Gill

Wad

Cumt

C Potts gill Ba. M (?)
C Sandbed M

Wavellite

Comb

C Long Comb M

Withente

Cumb

E Nentsberry Hagggs L
Middlecleigh v 5

- E Alston Moor
- E Brownley Hill (M)
- E Nentsberry M
- E Taylors Grove M
- E Hagggs M
- E Blagill M
- E Mounthooly Plantation
- E Clargill M
- E Scaleburn M (Rampgill)

Wolframite

Cumby

See also Ferberite

C Brandy Gill

C Caldbeck Tells

C Carrock Tell

C Carrock W M

C Grains Gill

C Poddy Gill

Wroewolfeite

Cumb

E Tyne bottom M

C Red Gill M

C Silvergill M

C Short grain (?)

Wulfenite

Cumb

C Brandy Gill

C Goldscope M (?)

C Paddy Gill

C Comb Beck (e Burtness Wood) (= Kinniside) M

C Mexico M (Tod Gill) [C Roughton Gill M

C Force Crag (??) [Poss = stobzite] C Silvergill M

C Arm Ol grain

C Carrock W mine (?)

C Driggith M

[C Ingray Gill (??)

W. Hazetholme

C Ballway Rigg

C Dry Gill M [?]

Xenotime

Cumt.

c grains gill

Zavaritskite

Cumby

Water Crag(?)

Zincite

Cumb.

E Tindalefell works [slag] (?)

Zinckenite

Cumms.

c Carrock W M

c Dry Wet? Swine Gill (?)

Zincolivenite

Cumb

Short Grain

Polts Gill

Driggith M

Sandbed M

Deer Hills

Nether Row Brow

Zungite

Camp.

C Embleton Q

Unident Cu minerals Cumb.
of unknown anions

c Short grain (silky brown translucent fibres)

Unident Ca-Cu Phosphates Ccumb

Croughtonville Miner Ca-Cu-PO₄

Unnamed silicates $\text{Al}_2\text{Fe}_2\text{Si}_2\text{O}_{10}$ Cramp

6 Short Grain / Amorph Fe-silicate

Unident sulphates

Cumb

- E Tindalefell spelter works [slag]
Pb? - Zn? - hydrated - SO_4
- C Short grain Pb-Cu- SO_4 lilac blue fibr

Unident sulphides, sulphosalts Cumb

C Lorton a Ni-As-S
a Co-As-S.

C Short Grain . Black Cu-S
a Sulphide

C Netherrow Brow. Fibrous grey sulphosalt
E Tynebottom mine AgFeS_2
 $\text{AgFe}_8\text{S}_{11}$

Unnamed Cr-Ti-oxide

Cumb

C Lorton

Unident sub-met tet'hedra Cumb

E Tindalefell [slag]

Unident sub-met, Feolag cleav.

Cumb.

E Tindalefull [slay]

Unident pale peppermint-green sugary
or globular non-carbonate

Cumby

CDriggith M