YORKS

G&L (1858) Lignite in Oolitic rocks

AJG Notholt "Potash" Min Doss Min Res Cons. Ctee 16 (1976)
Sol. K salts ~1100-2000 m deep in Upp. Permian of N. Yorks e Cleveland area [see Boulby]

NMRS Records (1980) "The mines of Grassington Moor and Wharfedale" British Mining No. 13.

A Raistrick (1975) "The Lead Industry of Wensleydale and Swaledale. Vol. I. The Mines". Moorland Publishing Co.

A. Raistrick (1973) "Lead Mining in the Mid-Pennines
Pub. D. Bradford Barton, Truro

KCD (1974):-
Ed. D H Rayner & J E Hemingway (1974) "The geology & mineral resources of Yorkshire". Yorks Geol. Soc. KC Dunham "Epigenetic Minerals" pp293-308 ["KCD (1974)"]

GR. (PHN) (8/98) The BM have XRD a brown fibrous mineral from "Yorkshire" = ilvaite.

ALBITE YORKS

Beverley

Allophane

Yorks

Scarborough

ALUM

YORKS

Whitby

Alumohydrocalcite

Yorks

Scarborough

ANGLESITE

Yorks

Closehouse mines
~~Galbraith Yorks~~
Skeleron mines
Pikedaw Hill
Ben Scar
Peat(s) Pasture
Buckden Gavel M.
Bishopdale Gavel M
Coldstones Q

ANKERITE

YORKS

Raygill mine

Clozehouse M

Yorks Silverband M

ANHYDRITE

YORKS

Leeds ("Leedsite")

Boulby M.

Apatite

Yorks

Swinden Q ("U-collophane")

ARAGONITE

Arkendale
Lunehead mine
Pikedaw Hill
Grunton How mines
Stockdale mine
" "Upper Swaledale" (No card)
Castaway - Ripley V, Grassington
Ben Scar (?)
Cranehow Bottom
Arkengarthdale (Martin V.)
Whitaside M's

YORKS

Swinden
Yorks Silverband M

ARGENTOJAROSITE

YORKS

(Grassington) 2
West Turf Pits mine

AURICHALCITE

?Braithwaite mine
Cottingham mine
Moss mine
Old Moss mine
Gill shaft, Greenhow mines
} Grassington

Clasehouse M (?)
Wet grooves mines
Brennand M
Old Gang M's (P.B.) Hard Lev)
Lunehead M's
Turf Pits M, grassington
Castaway - Ripley V. Grassington
Arkengarthdale (Hungry Hushes)

YORKS

Barras End (?)
Copperthwaite V.
Coldstones Q
Whitaside M's
Sykes

AZURITE

YORKS

Old Moss mine, Grassington
Grisdale Common
Lolly mine
Sleddale vein
Sykes
Pikedaw Hill
Ben Scar
Richmond M's
Coldstones Q (?)
Ulldale
~~Crampston Hill~~

Barium aluminium trisulphide hydroxide hydrate Yorks

Surrender mill [slag]
Whaw hton mill [slag]

Barium sulfite $BaSO_3$ Yorks

Surrender mill [slag]
Workington Mill [slag]

Barium thiosulphate monohydrate, orth. Yorks
Pbcm

Surrender Mill [slag]
Whashton Mill [slag]
Marrick Mill [slag]
Totley Bole [slag]

Barium thiosulphate fluoride (tricl) Yorks

Surrender Mill [slag]
Whashton Mill [slag]

BARYTE (1)

Arkendale
Bowes
Braithwaite mine
~~Brandy Bottle Drift, Old Gang Mines~~
Catholes Clough, Todmorden
Closehouse mine
Cononley mine
Forest Moor
Grassington
Chatsworth mine
Cottingham mine
Moss mine
Old Moss mine
Sarah mine
~~Galloways vein~~
Hull Pot
Lolly mine

YORKS

Lunehead mine
Merryfield mine
Old Gang mines
Raygill mine
Skeleron mines
Swinden Lime works
Swinnergill mines
~~Thirtofley Farm~~
Virgin Lead mine
West Hush, Closehouse mine
Wet Grooves mine
Leeds ("Leedsite")
Cockhille Sunnyside mines
Sykes
Ellbolton Hill
Black Hill Mines

PTO

Greenhow (Duck St) Quarry
Prosperous e Providence Mines
Brunts Shaft
Yarnbury
St Hubert mine
Victoria mine
Lead Mine Clough, Blackshaw.
Birkdale Thrush
Black Ark
Green mine
Holwick Scars
Maizebeck mine
Merrygill Beck
Thistle Green

Yorkes Silverband M
Arkengarthdale Ms
Copperthwaite Lode
Grinton Nows mines
Stag Fell grove
Friar Intake
Kild Heads M
Pikedaw Hill
Proctor High Mark
Ben Scar
Kilnsey Moor
Beldi Hill Ms
Sled Dale
Raigill M

Barytic (II)

Craven Cross M's
Coldstones
Marks Clough Beck
Ashnott
Cowling
Tow Top
Barnoldswick
Brennand M.
Bramham

Yorks

Faggergill M
Peat(s) Pasture.
Bishopdale Gavel M
Buckden Gavel M
Lane End M's
Castaway - Ripley V
grossi ziplow
Tunstall
Barras End
Tunstall (Hilston)

Ba

Hagsgill Ls.

Whitaside M's

Starbotton M's.

Kettlewell M's

Groove gill V's

Bycliffe V., Grassington

BARYTOCALCITE YORKS

~~Brandy Bottle Drift, Old Gang mines~~
Lolly mine
Old Gang mines
Lunehead M's
Lane End M's

Basaluminite, Yorks

Scarborough

Beaverdale

Yorks

Pikedaw Hill

inous minerals, misc

BITUMEN

Swinden Lime works (bitumen)
Whitby (bitumen, jet, petroleum)
Newton (Jet)
Roseberry (Jet)
Scarborough (Jet)
Strafford (Jet)
Yorkshire (lignite)
Bridlington (amber)
Sled Dale (Pitch)
Spaunton Q. ("hydrocarbons")
Kettlewell M's (coal)
Threshfield (coal)
Burnsall & Thorpe (coal)

YORKS

Groove Gill (Coal)
Hebden M's (Coal)
Cononley M (coal)

BORACITE YORKS

Aislaby

Boulby M.(including ferroan)

Bornite

Yorks

Yorks (Listed in KCD, 1974)

Brochantite

Yorks

Whashton Mill slags (?)

Cadmium sulphides Yorks
Old Gang Mts

CALCITE (I)

Braithwaite mine
Catholes Clough
Cock mine
Cononley mine
Sarah mine, Grassington
Hull Pot
The Nidd (banks of)
Raygill mine
Skeleron mines
Swinden Lime works
Swinnergill mines
Virgin Lead mine
Yordas cave
Thorner
Cockhill Sunnyside mines
Elbolton Hill
Black Hill mines
Bramham

YORKS

~~Gallowcoy Hem~~
Merryfield mine
Prosperous & Providence mines
Old gang Ms
Friar Intake
Wet Grooves Ms
Seata M
Kild Heads M
Pikedaw Hill
Proctor High Mark
Ben Scar
Cold Streak M.

Ca

Kilnsey Moor
Beldi Hill Ms
grinton How Ms
Sled Dale (?)
Lolly M
Craven Cross M's
Coldstones ⓘ
Barnoldswick
Cowling
Clasehouse M
Speeton
Whitaside M's

Kettlewell M's
Peat(s) Pasture
Buckden Gavel M
Lane End M's
Castaway - Ripley V
Grassington
Richmond M's
Raigill M
Arkengarthdale M's.
Tunstall (e Hilston)
Spaunton ⓒ
Barras End
Scalebar Bridge

Calcite (II) Yorks

Carden Hill
Langerton Hill
Stebden Hill
Groove Gill V.
Totley Bole (slag)
Yorks Silverband M

Calomel Yorks

Grassington (?) AWGK
Greenhow Hill (?) AWGK
Chatsworth mine, Grassington (?) AWGK

Carbonate-cyanotrichite ↓ Yorks

Lunehead M's.

Carnallite Yorks

Boulby M.

CELESTINE YORKS

Aislaby
Forest Moor
Green Hammerton
The Nidd (banks of)
Bilton
Scotton Moor

CERUSSITE

Braithwaite mine
Cononley mine
Grassington
Cottingham mine
~~Galloways vein~~
Grinton Moor mines
Swinnergill mines
Skeleron mine
Ben Scar
Turf Pits M, Grass
Coldstones Q
Old Gang Ms (BB)
Peat(s) Pasture.
Buckden Gavel M

YORKS

Bishopdale Gavel M
Closehouse M
Sykes

CHALCEDONY ic silica

YORKS

Whitby (chalcedony)
Scarborough (Carnelian, Jasper)
York (Jasper)
Grinton How M's (chert)
Fremington Edge Q's (chert)
Sykes

CHALCOCITE YORKS

Middleton Tyas

CHALCOPYRITE

Catholes Clough
Cononley mine
Duck St.(Greenhow) quarry
Moss mine
Grisdale Common
Middleton Tyas
Raygill mine
Richmond mines
Swinden Lime works
Sykes
Ben Scar
Dew Bottoms
Low Coke Moor
Sled Dale
Lolly M

YORKS

Old Gang M's
Closehouse M
Lane End M's
Raigill M
Arkengarthdale (Danby Lev)
Boulby M.
Scaleber Bridge
Bramham

Chrysocolla

Richmond M's

Yorks

CINNABAR

Grassington
~~Galloways vein~~
Cockhill adit and Sunnyside mines
Duck St. (Greenhow) quarry
?Ingleborough Cave
Copperthwaite Lode
Gill Heads mine
Greenhow Hill
Wet Grooves mines
Old Gang M's (GB & Friarfold H)
Turf Pits M, grassington
Moss M, grassington
Reat's Pasture

YORKS

Arkengarthdale (Hungry Hustles)
Coldstones Q
Castaway. Ripley V,
grassington (?) ("manum")
Craven Cross (? AWGK-
V. doubtful) Not on
Barras End M

"α-tyretskite" Yorks.

Boulby M (error for hilgardite)

Congolite

Yorks

$(Fe'', Mg, Mn)_3 B_7 O_{13} Cl$. trig.

Boulby M.

CONNELLITE Yorks

Whashton Mill slag (?)

COPPER, metal. Yorks

Whashton Smelt Mill

minerals

COPPER ORE (Unspecified) YORKS

Beckermonds
Hell Gill
Hull Pot
Wig-Twizle mine
Maizekeck mine
(Green mine -??)
Feldom M
Leyton
Kneeton
Melsonby
Gingerfield
Whashton Mill slags

Covelline

Yonkes

Yonkes (listed in KCD, 1974)
Clarehouse M

CUPRITE

Yorks

Sykes

Whashton Smelt Mill

Boulby M.

Closehouse M

Devilline Yorks.

Brandy Bottle Drift (Old gang mines) – Develine-
Serpierite group (.).

DOLOMITE

YORKS

Raygill mine
Skeleron mines
Thorner, Leeds
Sled Dale (?)
Speeton
Arkengarthdale
Old Gang Mts.
Boulby M.
Langerton Hill

Ericaite Yorks

Boulby M.

Famatinite

Yorks

Scaleber Bridge
Old gang Mines ("Melbecks Moor")

Fayalite

Yorks

Cobscar smelting mill (slag).

FELSPARS, misc. YORKS

Scarborough

FLUORITE

Braithwaite mine
Duck Street (Greenhow) quarry
Grassington
Chatsworthnmine
Cottingham mine
Low Peru mine
Moss mine
Old Moss mine
Sarah mine
West Peru mine
~~Galloways vein~~
Lolly mine
Raygill mine
Skeleron mines
Swinden Lime works
Swinnergill mines
Cockhill e Sunnyside mines

YORKS

Wet Grooves mines
Sykes
Elbolton Hill
Black Hill mines
Merry field mine
Prospetouse Providence mines.
Brunts Staff
Yarnbury
Thistle green
Old gang mines
Surrender mines

F

Arkengarthdale Ms
Copperthwaite Lode
Friar Intake
Lover gill V.
Stag Fell grove
Seata M
Keld Heads M
Carden Hill
Stebden Hill
Morsdale M
Proctor High Mark
Ben Scaw
Sled Dale

Craven Cross M's
Coldstones ①
Turf Pits M grass
W. Turf Pits M grass
Brennand M
Peat(s) Pasture
Troller's gill
Raj gill M
Castaway-Ripley V grass
Starbotton M's.
Kettlewell M's.

Fraipontite

Yorke

Copper Quarter Lode

Virgin Moss vein

† = presumed

GALENA, "Lead ore" (I)

Braithwaite mine
Broomhead Mill
Catholes Clough
Closehouse mine
Cock mine
Cononley mine
Craven Moor mine
Duck Street (Greenhow) Quarry
Grassington
Cottingham mine
Low Peru mine
Moss mine
Old Moss mine
Sarah mine
~~Galloways vein~~
Grinton Moor mines

YORKS

Hull Pot
Lolly mine
Lunehead mine
Merryfield mine
Middleton Tyas
Skeleron mines
Swinnergill mines
~~Thievely Farm~~
West Hush, Closehouse mine
Wig-Twizle mine
Arkendale
Cockhill Sunnyside mine
Sykes
Elbolton Hill
Black Hill mines

PTO

Yarnbury
Ashnolt ("Lead")
? Crimpton.
St Hubert mine
Victoria mine.
? Lead Mine Clough, Blackshaw (Presumed)
Birkdale Nush
Black Ark
Green mine
Maizebeck Mine
Thistle Green
Yorks Silverband M
Beldi Hill Ms
Lowgatthwaite Ms
Mossdale Mine

Arkengarthdale Ms
Surrender M
Old Gang mines
Coppelthwaite Lode
Grinton Hows Ms
Friar Intake
Stag Fell Grove
Wet Grooves Ms
Seata M
Keld Heads M
Appletreewick M
Langerton Hill Ms
Peck O' Malt Mine

Galena, "Lead ore" (II) Yorks

Pikedaw Hill
Proctor High Mark
Ben Scar
Dew Bottoms
Kilnsey Moor
Low Coke Moor
Lane End Ms
Little Moor Foot M
Rumble Pool Level
Keldside M
Stonesdale Moor M
Sargill M
Dam Hill
Sled Dale
+Eller Beck M (presumed)
Blakethwaite L's
Faggergill M
Punchard Gills

Barras End
Virgin M.
Queens L
Cat Sh.
Wellington Barf End M.
+ Racoa V
+ Roan Hush
+ Hind Rake
Musgrove Pasture
Skelton Moor
Jingle Pot M
+ Grinton Dam V
+ Sun Hush
+ North Hush
Prys mine
+ Moresdale Ridge L
Clints M
Dicky Edge
Thringill Hill
Holgate Pasture
+ Waitgate Gill
Long Green

Galena, "Lead ore" (II)

Yorks

Newsham Moor
White Fell
Scargill M
† Spankum Hush
Craven Cross M's
Coldstones Q
Turf Pits M, grass
W. Turf Pits M, Grass.

Sawley
Cowling
great Todber
Brennand M
Whitendale M
Buckden Gavel M
Peat(s) Pasture
Feldom M ("Pb one")
Richmond M's ("Pb one")

Pb

Applegarth ("Pb one")
Bishopdale Gavel M's
Adelaide Bevel †
Adelaide M (Pb)
Apedale Head L (Pb)
Arn Gill M's (Pb)
Beezy M's (Pb)
Bolton Park M (Pb)
Bobscar M (Pb)
Brock Holes (Pb)
Brownfield M (Pb)
Chaytor Rake †
Cleavers Rake (Pb)
Cobscar Rake †
Cogden Gill L (Pb)
Cooper Sh (Pb)
Cubeck †
Daggets L †
Devis Hole M (Pb)
East L (Pb)
East End V †
Friar Intake L (Pb)

Galena, "Lead ore" (Pb) (IV) Yorks

Golden Grooves Sh's (Pb)
Groveback M (Pb)
Guy M (Pb)
Haggill Ls (Pb)
Harkers L (Pb)
Harkerside Moor (Pb)
Hurst M's (Pb)
James Raw's Rake †
Juniper L (Pb)
Kining L (Pb)
Old Stork V †
Petticote Rake †
Raigill M †
Randy Sh (? or coal?)
Redway Head V †
Spout gill M (Pb)
Stainton M (Pb)
Stopmore Rake †
Summer Lodge M (Pb)
Thackthwaite Beck †
Walker Wife Rake †
Walls M (Pb)
Wellington V †
Whitaside M (Pb)

Pb

Wirn Sh (Pb)
Wood Pot L (Pb)
Woodale M (Pb)
Raigill M
Arkengarthdale
Prosperous e Providence M's
Barras End
Sealeber Bridge
Browngill M (assumed)
Starbotton M's. (Pb)
Kettlewell M's (Pb)
Moorhead M's (Pb)
Mossdale M's (Pb)

Outmoor M's (Pb)
Clapham High Mark(
Hesleden Bank (Pb)
Potts Beck (Pb)
West Close (Pb)
Arncliffe Clowder (Pb
Darsey Rake (Pb)
Merrybolton (Pb)
Black Rock M (Pb)
Cold Streak M (Pb)
Hawkswick Clowder (Pb)
Whitway V (Pb)
Skythorns (Pb)
Threshfield (Pb)

Galena, "Leadore" (Pb) (V) Yorks

Brockabank (Pb)
Hetton (Pb)
Carden Hill
Kail Hill (Pb)
Skelberton (Pb)
Stebden Hill
Burnsall (Pb)
Hebden Mls (Pb)
Groovegill V.
Tag Bale M. (Pb)
Cataway-Ripley V., Grassington

Gearksutite $CaAlF_4(OH).H_2O$ Yorks

Old gang M's

Gismondine - Ba

Yorks

Marrick smelting mills [slag]
Whashton mill [slag]
Surrender mill [slag]

GOETHITE, "Limonite" (L)

Raygill mine (G, L)
Thorner, Leeds
Suffield
Old Gang M's
Galloways M (L)
Swinden Lime Wks (L)
Moss M, grass (L)
Yarnbury M, grass (L)
Skeleton M's (L)
Ore Pit Holes (L)
Grinton How M's (L)
Turf Pits M, grass (L)

YORKS

Peat(s) Pasture (L)
Bishopdale Gavel M (L)
Buckden Gavel M (L)
Summer Lodge M
(Ψ-after-marcasite)
Bramham.
Scaleber Bridge (L)
Whitaside M.
Stebden Hill (L)
Yorks Silverband M (L)

Gold Yorks

Settle
Jamie V, Greenhow

GYPSUM

YORKS

Cononley mine
Ferry Bridge
Green Hammerton
Bilton
The Nidd (banks of)
Old Gang M's
Howden
Boulby M.

HAEMATITE

YORKS

Ayrton
Newton
Sled Dale
Bishopdale Gavel M
Boulby M.

Halibe W/orks

Boulby M

Halotrichite Yorks

Meal Bank Q, Ingleton (AWGK - suspect)

Hausmannite Yorks

Bycliffe V., Grassington

HEMIMORPHITE

Cottingham mine, Grassington
Moss mine grass
Old Moss mine, Grass
Lunehead mine
Brunts Skaft
Yarnbury, Grass.
Copperthwaite Lode
Grinton How M's
Keld Heads M.
Swinnergill M's (?)
Buckden Gavel M
Bishopdale Gavel M

YORKS

Coldstones Q
Castaway - Ripley V, Grass.
Cobscar Rake
Sunner Lodge M
Arkengarthdale (Hungry Hushes)
Wet Grooves M.
Old Gang M's.
Whitaside M's
Rake V, grass

Hilgardale Yorks

Boulby M.

Hydrozincite

Yorks

Grinton How M's
Wet Grooves M's
Providence M, Bewerley.

Ilvaite

Yorks

Yorkshire

Iron minerals (unspecified) Yorkes

Park End (Iron Ore)
Bycliffe V., Grassington ("Iron ores")

JAROSITE

YORKS

Cononley mine
Grassington
Old Moss mine, Grass
Sarah mine, Grass
Meal Bank quarry
Turf Pits mine, Grass
W. Turf Pits M, Grass
Buckden gavel M
Bishopdale gavel M
Pikedaw Hill

Ktenasite

Yorks

Old Gang Mts

Leadhillite Yorks

Clorehouse M.

"LEEDSITE" YORKS

A mixture of baryte and anhydrite - see these minerals.

LINARITE

YORKS

?Cononley mine

Rairgill M

Closehouse M

Litharge

Yorks

Surrender mill [slag]
Cobscar mill (?) [slag]

Luzonite

Yorks

Scaleber Bridge

Magnesite

Yorks

Boulby M.

Magnetite Yorks.

Cobscar smelting mill (slag)

MALACHITE

Farnham
Cottingham mine, Grassington
Grisdale Common
Lolly mine
Newton Kyme
Richmond mines
Swinden Lime works
Sykes
Pikedaw Hill
Proctor High Mark
Ben Scar
Kilnsey Moor
Sled Dale
Coldstones

YORKS

Barras End
Chatsworth M
Grassington
Middleton Tyas
Castaway-Ripley V
Grass.
Raigill M
Whashton Mill slag?
Old gang M's (Fircarton)
Closehouse M
Arkengarthdale
(Dowby Lev)

Mal.

Lunchead Mls
Scalleker Bridge

Marcasite

Yorks

Summer Lodge M (Pseudo'd into goethite only)
Coldstones Q
Scaleber Bridge

MELANTERITE

YORKS

Whitby

Burtersett Stone M's

MERCURY YORKS

Grassington (?) AWGK

Greenhow Hill (?) AWGK

Chatsworth M, Grassington (?) AWGK

Metacinnabarite Yorks

Grassington (? - AWGK)
Greenlow Hill (? - AWGK)
Turf Pits M, Grassington (? - AWGK)
Cockhill & Sunnyside Ms (? AWGK - v doubtful)
(Peat's Pasture)

MICA

YORKS

Catholes Clough

MIDDLETONITE YORKS

Middleton Collieries, Leeds

MIMETITE YORKS

Grassington

Teesdale (?error for pyromorphite?)

MINIUM YORKS

(check for cinnabar where poss)

Craven Moor mine

Grassington (?)(AWGK

?grasshill Chapel

Castaway - Ripley V, grass.

Cobscar mill? [slag]

Otavite

Yorks

Coldstones Q (calcian)

"Parahilgardite Yorks

Boulby M. (Error for hilgardite)

Parahopeite

Yorks

Turf Pits mine, Grassington

PLUMBOJAROSITE

YORKS

(Grassington)
Turf Pits mine

Potassium mins (unspecified) Yorks.

Boulby
Yorks (N)

Prehnite

Yorks

Proctor High Mark (?)

Prosopite
$CaAl_2(F,OH)_8$

Yorks

Coldstones Q

PYRITE

Catholes Clough
Halifax
Raygill
Scarborough
Swinden Lime works
Whitby
Skelcon mines
Pikedaw Hill
Ben Scar
Sawley
Barnoldswick
Clasehouse M
Speeton

YORKS

Lane End M's
Hawden
Boulby M
Old Gang M's
Coldstones Q
Scaleber Bridge
Hebden M's.
Coroneay M

Pyrolusite Yorks.

Bycliffe V., Grassington

PYROMORPHITE

YORKS

Closehouse mine
West Hush, Closehouse mine
Grassington
~~Coalhowgate vein~~
"Surside mines"
Cockhille Sunnyside mines
Sled Dale (?)
Peat(s) Pasture
Old Gang mines
Arkengarthdale mines
Coldstones Q.
Teesdale

Yorkshire Silverband M.

QUARTZ YORKS

Grisdale Common (incl. amethyst)
Raygill mine
Whitby ("flexible")
Sykes
Birkdale Nush ("silica")
Maizebeck M ("silica")
Copperthwaite Lode
Pikedaw Hill
Ben Scar
Proctor High Mark
Sled Dale
Closehouse M
Bishopdale

Arkengarthdale Mts
Bowlby M.
Spaunton Q
Uldale

gavel M

Rectorate Yorks.

Bowerby M.

RHODOCHROSITE YORKS

Raygill mine

Rinneite Yorks

Boulby M.

ROSASITE

YORKS

Chatsworth mine
Cottingham mine
Moss mine
Old Moss mine
Taylor's shaft
} grassington

Old Gang M's (BB)

Closehouse M

Turf Pits M, grassington

Arkengarthdale (Hungry Hushes)

Coldstones Q

Sykes

SCARBROITE YORKS

Scarborough

Serpierite Yorks

Old Gang Mines (Brandy Bottle drift — devilline-serpierite(?)) (Lucky Strung)

SIDERITE YORKS

Raygill mine

Skelcron mines
Wynch Bridge M
Raigill M

SMITHSONITE

Grassington
?Skeleron mines
Sykes
Pikedaw Hill
Ben Scar
Dew Bottoms
Brennand M
Wet Grooves M's
Buckden Gavel M's
Stockdale M (?)
Bishopdale Gavel M

YORKS

Coldstones Q
Castaway - Ripley V
Arkengarthdale
(Stodart Hungry e
North Rake Hushes)
Old Gang M's
[incl. "Plumbosmithson" (?)
Whitaside M's
(some vivid orange)
Swinden ("calamine")

(Smiths)

Cononley M
Barras End
Kettlewell M's [Moor End & Middlesmoor mines]

Spencerite

Yorks

Tuff Pits mine, Grassington (?) NWOK

SPHALERITE

Broomhead Mill
Grassington
?Hull Pot
?Merryfield mine
Raygill mine
Wig-Twizle mine
Sykes
Closehouse mine
Skeleton mines
Wyrch Bridge M
Copper Thwaite Lode
Swinnergill Ms
Wet Grooves Ms
Seata M

YORKS

Beldi Hill Ms
Barnoldswick
Brennard M
Whitendale M.
Lane End Ms
Raigill M
Arkengarthdale Ms
Prosperous & Providence Ms
Coldstones Q
Scaleber Bridge

(Sphaleriida)

Conoryctes M
Barrats End M

STRONTIANITE

YORKS

Cock mine
Merryfield mine
Pateley Bridge
Victoria level
Old Gang Mines
Reeth
Arkengarthdale (Turf Moor Hush)
Providence M, Bewerley
Barras End M

SULPHUR YORKS

Cononley mine

Arkengarthdale (Turf Moor Hush)

Sylvine
Boulby M.

Yorks

Syngenite Yorks.

Boulby M.

Tennantite Yorks

Scabber Bridge

Trembathite
$(Mg,Fe)_3 B_7 O_{13}$ Cl hex
Boulby M.

Yorks

"Cl-tyretskite" Yorks

Boulby M (error for Hilgardite)

VEATCHITE YORKS

Aislaby

Viviante

Yorks

Howden
Huggate Wold
York

"Wad" Yorks.

Old gang M's.

Whewellite Yorks

Mealbank Q [Not cared] (?) AWGK (doubtful ex Saxony)

WITHERITE

Arkendale
Brandy Bottle Drift, Old Gang Mines
Cononley mine
Lolly mine
Lunehead mine
Old Gang Mines
Swinnergill mines
Virgin Lead mine
Victoria level
Friar Intake
Ben Scar
Wet Grooves M/s
Blakethwaite
Barras End

YORKS

Lane End M/s
Arkengarthdale
Whitaside M/s
Palfrey, Grassington

"Zinc Oxide, "shute" Yorks

Pikedaw Hill [Probable error]

Unidentified minerals Yorks

Surrender Mill [slag]
Washton Mill [slag]
Marrick Mills [slag]
Cobscar Mill [slag]
Swinden ("A non-xline Fe-carbonate-silicate")

1" 90 SD 91$_0$ 99$2_5$

ADELAIDE LEVEL, Muker, Yorks

See also ARN GILL Pb M's

1"86 NZ 8508

AISLABY Yorks.

Stewart, Chalmers & Phillips MM 30 389 (1954). "Eskdale No. 2 borehole" sunk by D'Arcy Exploration Co. nr. Aislaby, N. Yorks had veatchite (Sr borate) acicular & platy, up to 3mm size, at several depths below 4000 ft. Boracite & celestine also recorded (cf MM 28 261)

AGNES LEVEL, Arkengarthdale, Yorks

See PUNCHARD GILLS

ALCOCK HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE Mls.

1" 90 Cent. on SE ~~NE~~ 015 948

APEDALE LEAD MINE, Castle Bolton, Yorks

See also BOBSCAR Pb M., APEDALE HEAD Pb Lev.

OS map. Also APEDALE Pb SHAFT 019 946
and BOBSCAR Pb LEVEL 0155 9480

1" 90 SE 0115 9485

APEDALE HEAD Pb LEVEL, Castle Bolton, Yorks

See also APEDALE Pb M.

1" 91 NZ 13 01

APPLEGARTH, Richmond, Yorks.

A. Raistrick (1975) "The Pb industry of..." 96

Small Pb mine above Applegarth, in Whitcliffe Wood, worked after 1675!

1" 90 SE 055 607 - 058 604

APPLETREEWICK MINE, Appletreewick, Yorks

OS 6" map shows "Appletreewick Lead Mine" at above map ref.

1" 91 SE 390 610

ARKENDALE, Knaresborough, Yorks.

cf ARKENGARTHDALE MINES.

TMH(1868), 71: Mt. Lim. (Pb mines) Aragonite; barytę; witherite

"ARKENDALE" is often used as abbrev. for ARKENGARTHDALE

OS1" map shows Arkendale, (nr Knaresborough) at 390 610, 4 m. S of Boroughbridge, in low, very flat country!!! There are Pb mines in Arkengarthdale, ca 40 miles to the NW!

G+L (1858): Barytę, witherite.

W. Phillips (1823). Witherite - common matrix of galena in Arkendale.

1" 90 84 Centred on NY 98-99 02-03
NZ 00-03 00-05

ARKENGARTHDALE MINES, Arkengarthdale, Yorks (I)

cf ARKENDALE

See also SURRENDER MINE, PUNCHARD GILLS, BARRAS END.

OS 6" map shows a complex of mines around NY 9903, on SW side of Arkengarthdale [also other mines in the dale eg around NZ 0103; 0104; 0102, dealt with separately] SEE (II)

KCD "F" (1952) 67. The fluorite-carrying veins are those on the W side of Arkengarthdale. The Friarfold vein system [OLD GANG MINES], links

with the Arkengarthdale Complex at Surrender Mines. The Complex consists essentially of a strong ENE vein, the BLACKSIDE V., crossed by a less continuous WNW trending fault line called, from E-W, FELL END V., DODGEONS V; JUSTICE V.; & PUNCHARD GILL V. Many branches etc make up the complex, espec. near crossing of the two main fault veins [around 98, 02, ?] where there are several bushes. Within a small area in and around the nodal bushes, fluorite is almost as important a gangue as baryte, but no production. Galena mined.

ARKENGARTHDALE MINES, Arkengarthdale, Yorks, (II)

OS 6" maps: DANBY LEVEL, 975 035; DAM RIGG LEVEL, 983_5 0340, in DAM RIGG CROSS HUSH (NNE-SSW) 980_0 029_5 - 98_5 03_5; MARTIN VEIN (WNW-ESE, crossing Dam Rigg Cross Hush), 97_7 03_1 - 98_2 02_8; STODART HUSH (WNW-ESE), 983_{03_0}; HUNGRY HUSHES, centred on 98_6 02_8; BAND HUSH, near 99_5 02_8; DODGSON HUSH (E-W) 992 025 - 996 025; STEMPLE HUSH, near

$99_3 02_3$ (E-W); TURF MOOR HUSH ~991 022 - 995 021; COBBLER HUSH, near 993 018; BLACK HILLS LEVELS (Stodart Hush) near 983 030; BLACK WHIM, 979 026; SUN SHAFT, 984 027; STEMPLE WHIM, $989_5 024_0$; STEMPLE HIGH WHIM, $986_5 026_0$; MOULDS TOP MINE, near $99_5 026$; UNDEREDGE LEVEL, $990_5 029_5$; JUSTICE LEVEL, near $991 027$; MOULDS LEVEL (Dodgson Hush) near 995 025; TURF MOOR LEVEL, near 995 023; NEW MOULDS LEVEL, $NZ 010_5 023_0$; SNUFF HORN SHAFTS, near $990 020$.

ARKENGARTHDALE MINES, Arkengarthdale, Yorks, (III)

OS 6" maps (Cont'd). Mines etc shown ~~to~~ NE of stream (Arkle Beck): A concentration in the Low Moor - Slei gill area: WHITE GANG Pb V. (E-W) near NZ 011041, to E becoming WINDEGG V (E-W) centred on NZ013041. WINDEGG LEVEL, NZ 008 039 (cf that at 012053) FLOAT SHAFTS (NW-SE) centred on NZ 01_4044; FREEMANS Pb V. (NE-SW) NZ $009_0\ 037_5 - 010_5\ 039_0$; COCKER RAKE Pb V. (NW-SE) 009 037 - 011 034; Gt. BLACK Pb V. (ENE-WSW) 005 031 - 010 033; PROSPEROUS

Pb LEV. 005 030; WASHY GREEN LEV 022 037;
NORTH GUTTER Pb LEV [Reeth pH] 022 032;
NORTH RAKE HUSH (E-W) 015-8 032 5; TANNER
RAKE HUSH (NW-SE) 013 033 - 018 028 which
to E & Slei gill becomes PRIMROSE V (NW-SE)
[Reeth pH] 019 028 - 022 026; SCATTER SCAR
HUSH 017 031 - 019 031 (E-W); DOCTORS Pb LEV
in Tanner Rake Hush, near 017 028; SUN GUTTER
Pb LEV, Primrose V. [Reeth pH] 019 028; FELL END
LEV [Reeth pH] 022 024; FELL END MINE, 025 024
[Reeth pH]; BOOZE WOOD Pb LEV [Ark. pH] 015 020

ARKENGARTHDALE MINES, Arkengarthdale, Yorks (NY)

OS 6" maps (Cont'd) Mines to N & W of Booze Moor:

HURRGILL Pb Sh., 010 067; STANG MINE, 009 05 SHAW LEV. (Pb), near 002 049; ALCOCK HUSH, (NW-SE) 012 053 → 014 051, with WINDEGG LEVEL (Pb) at 012 053 [cf that at 008 039]

RJP Lamb Priv Comm 6/90. ~~Pyromorphite~~, microscopic, MARTIN VEIN; also aragonite

Jill Goltz (Warrington Soc) 7/90

TURF MOOR HUSH (992021) Strontianite, white radiating compact in situ; occas vugs with terminated xls. Calcite, baryte, fluorite. ?with v 2/3 way up hush in small area.

E-most of HUNGRY HUSHES (987028) Cinnabar, incl micro xls antichalcite, rosasite, hemimorphite, calcite, colourless fluorite, galena, sphalerite traces quartz (rare in area). Below hushes found good yellow fluorite.

STANG MINE, 009059. Quick look – baryte, calcite

WINDEGG Pb LEVEL, 012053. Quick look – baryte, calci

ARKENGARTHDALE M's Yorks (V)

10th September 1989 Fell End Hushes, N.Yorks. This time it was George who failed to lead his meet due to a damaged ankle and a nasty cough, both courtesy of his young son! It was cold and dull but did not rain and we did have difficulty pinning down the precise localities. We also had difficulty parking but eventually got in at Arkle Town (a collection of about six cottages!). We started by walking right up Slei Gill to the Windegg Vein and White Gang Mine. Not a lot of mineralisation - baryte, galena and calcite, and a few copper stains. we then followed the old shafts of Freeman's Vein to Cocker Rake eventually picking up the start of North Rake Hush. Here there was plenty of baryte with some fluorite and a little witherite. We did not find strontianite, which is fairly easy to pick up further west along the North Swaledale Mineral Belt. Down the hush, one of the many small dumps produced several blocks containing crusts of yellow/green smithsonite.

OS 2½" maps:

WINDEGG V. (~NEW 01x041)

WHITE GANG M. (~011 041)

FREEMAN'S V. (~010036)

COCKER RAKE (~010 035)

NORTH RAKE HUSH (~015 032)

Dunham & Wilson. N. Penn. Orefld, 2

p125, 127, 143, 144.

Dolomite also mentioned

→ (200-300yd ~SW of)

JIW 3/96 From dump near DANBY LEVEL, pyromorphite (As-free; IR) pale green some radiating (IR) & looking very much like wavellite.

Russ Soc Newsl. 21

On Sunday I took over in view of George being out of action, which is a bit of a laugh since I had only been to the Hungry Hushes once before myself. Still it was once more than anyone else. Again the weather was splendid for most of the day. Initially we went up Turf Moor Hush and searched the dumps for strontianite with some success. We then continued up the hillside to Stodart and Hungry Hushes where secondary mineralisation becomes more apparent. Minor copper secondaries occur with cinnabar and some smithsonite. Working our way down the hillside the old smelt mill flues were admired and some respectable yellow fluorite and near fibrous secondary baryte were collected. Just as we were getting back to the cars it started to rain.

JIW 9/95 ("Info. from Ken Savage of Liverpool"

DAM RIGG LEVEL (983 034)
– very big baryte xls recently.

DANBY LEVEL (975 035)
good witherite; to 4" balls covered with baryte xls. Specks

coll JIW 10/95 include witherite hemispheres with fairly smooth opaque xline surfaces; calcite, small clear spiky xls (looking a bit like alstonite!) on/with baryte including tiny xls of "witherite-indic" habit. Small patches malachite chalcopyrite, galena

ARKENGARTHDALE MINES, YORKS, (VI)

Tyson (1995) The Arkengarthdale mines.

APPENDIX II

LIST OF SITES – NMRS RECORDS

HUSHES	ELEVATION	NGR	COMMENTS
Adam Bird's	1700-1740	980029	NY unless stated
Alcock	1325-1625	013051	
Band	1200-1300	995029	
Bird's Cross	1250-1625	987031	
Cobler	1330-1400	994019	
Damrigg Cross	1325-1740	981031	
Dodgson	1200-1375	994025	
Great (Tanner Rake)	1050-1450	015031	NZ
Hungry	1600-1725	987028	
Lilly Jock's	1350-1650	989029	
North Rake	1100-1375	017032	NZ
Scatter Scar	1050-1230	020032	NZ
Stang	1400-1550	013060	NZ
Stemple	1250-1400	993023	
Stodart	1600-1650	984030	
Tanner Rake (Great)	1050-1450	015031	NZ
Turf Moor	1250-1475	993022	

Scott's	1435	1313	011059	NZ 011059 NZ
Second Whim	1660	-	985023	
Shake	1825	-	973030	
Smith Whim	1810	-	976029	
Snuff Horn or Pump	1500	-	990020	
South Whim	1775	42	981028	
Stemple High Whim	1700	62	987026	
Stemple Whim	1600	-	989025	
Stoddart's Old	1470	-	010033	NZ
Stone Cove	1875	-	971028	
Sun	1740	-	983027	
Third Whim	1650	-	983023	
West End Whim	1825	-	974030	
Wetshaw High Whim	1760	-	980027	
Whim	1625	-	011040	NZ
William Gill Colliery	1865	27	915053	

SMELT MILLS	NGR	COMMENTS
CB New Mill	996034	
Farndale or Slei Gill	019028	NZ
Octagon	996036	
Moulds High	989019	
Moulds Low	992010	

LEVELS	ELEVATION	NGR	COMMENTS
Agnes	1525	954041	
Alcock Hush or Windegg	1490	012052	
Band	1115	997031	
Bishop	1675	959033	
Blackhills	1475	987030	
Booze Wood	830	014020	NZ
Brass Pump Floats	1525	019042	NZ
Compass	1195	023023	NZ
Damrigg	1320	983034	
Danby	1472	975035	
Doctor's or Proctor's	1050	018028	NZ
Faggergill No.1 or Old	1355	988070	
Faggergill No.2 or New	1320	987068	
Faggergill No.3	1390	989070	
Fell End Low or Gutters	1070	022023	NZ
Foregill	1160	997012	
Fox's	1400	959042	
Gooseneck or New Moulds	1028	999027	
Gutters or Fell End Low	1070	022023	NZ
Harker's Low	1300	006032	
Harker's Top	1350	006032	
Joseph Caygill's	1800	946042	Coal
Joseph Harker's	1300	006032	NZ

ARKENGARTHDALE, YORKS (VII)

Enoch's Whim	1500	-	989022	
Folly Gin	1525	-	990028	
Fourth Whim	1670	71	980025	
Freeman's	1575	-	009038	NZ
Hard	1480	-	011034	NZ
Harker	1675	-	012043	NZ
Hodgson	1620	-	015042	NZ
Horse	1750	-	982028	
Hurr Gill	1600	-	011066	NZ
Jacob's Whim	1675	68	987022	
Low	1800	-	957035	
Luke Whim	1750	-	977027	
New	1625	-	956039	
New	1890	-	971028	
New Gladding	1775	-	977029	
North Rake	1300	-	016032	NZ
Old Still	1480	-	011034	NZ
Pump or Snuff Horn	1500	-	990020	
Ralph Harker	1525	-	029049	NZ
Rich	1625	-	010039	NZ
Richard Peacock's	1650	-	014043	NZ
Rob Clark's	1525	-	009036	NZ
Robson's	1850	-	971030	
Scatter Scar	1100	-	020032	NZ
			011059	NZ

ARKENGARTHDALE, YORKS (VIII)

Justice	1400	991027	
Kipling's	1490	959046	
Lime Coal Level	1820	946043	
Little Punchard Gill or Stones	1470	961037	
Main Horse Level	1800	946042	Coal
Mossdale	1425	030051	NZ
Moulds Horse	1130	997036	
New Moulds or Gooseneck	1028	999027	
North Gutter	1075	021032	
Sun Gutter	1000	019029	
Nut Hole	1400	982070	
Old Water	1360	988032	
Proctor'sor Doctor's	1050	018028	NZ
Punchard Colliery	1800	946042	Coal
Punchard	1500	966037	
Punchard Gill or Stones	1470	961037	
Routh	1340	961044	
Shaw	1175	002050	NZ
Sloate Hole	1395	983070	
Smelt Mill	930	996037	
Stang	1355	010059	NZ
Stones or Punchard Gill	1470	961037	

Turf Moor High	1330		993022	
Turf Moor	1284		995022	
Underedge	1244		991030	
Washy Green or Harker's	1285		022037	NZ
Water	1750		946043	Coal
W. Hall's Hand Level	1350		006637	
Wharton's	1450		007033	
William Gill Colliery	1740		919057	
Windegg	1480		012052	NZ

SHAFTS	ELEVATION	DEPTH	NGR	COMMENTS
Bishop	1750	-	959030	
Black	1820	-	975030	
Black Whim	1728	57 Fms	980026	
Boring	1750	-	979026	
Brig	1730	-	983027	
Cicily	1625	-	011040	NZ
Coates'	1690	-	012344	NZ
Cocker Whim	1800	-	954035	
Deep	1740	-	981027	
Drawing Whim	1750	42	982028	
Enoch	1760	-	981028	

ARKENGARTHDALE, Yorks, (IX)

ARKENGARTHDALE, Yorks. (I)

RSN (2001) 38, 16. HUNGRY HUSHES; fluorite. TURF MOOR HUSH [NY 996 022] baryte, galena, some Cu min's, strontianite recorded. Native sulphur in a cav in galena; nice aurichalcite. Chert quarry up hillside. MARTIN V. Masses of baryte litter the landscape; a little smithson, hemim. STODART HUSH:- baryte ψ- witherite.

M. Wolfe (2006) UKJMM 27, p7 Polishable pale honey-brown baryte stalacts to ~ 8 cm across from small dump of FELL END M. (= PRIMROSE LEAD LEVEL)

M. Wolfe et al (2008) UKJMM, p 14. From JUSTICE & UNDEREDGE Levels, fine wedge-shaped baryte x/s, some on opaque amber-brown fluorite.

1"90 SD 925 698

ARNCLIFFE CLOWDER VEINS, Arncliffe, Yorks

See also DARSEY RAKE, MERRY BOTTON

MCgill(1994)"...Wharfedale..." 78; map, p.76.
Lead trials near head of Cote gill. ~~Hard Head~~

1" 90 SD 912 9925

ARN GILL Pb MINES, Muker, Yorks

See also ADELAIDE LEVEL

SD 6923,480-1

ASHNOTT, Bowland Forest Low, Yorks

See also CRIMPTON

P. Smith, Priv. Comm. (1963) A reef-knoll, with lead mines.

OS 6" map, shows "Old Lead mines" at 6923,480-1

JR Earp et al "Geol of Clith e Nelson" (1961)

Galena e baryte in strings in Ashnott Knoll, at 694 481

A Raistrick "Mid-Pennines" (1973) ASHNOTT MINE
p168-9. SD 693482. Shallow surface working

shafts, levels in reef-knoll. Part of WHITWELL MINES, with Sykes and Brennand. [+ Whitendale presumably].

ASH POT GUTTER, Melbecks, Yorks

See OLD GANG MINES

1"93

AYRTON, Scarborough, Yorks

TMH(1868), 71: Mid. Ool. Haematite

Irton Moor SE 99 87 TA 00 87

? Irton TA 0184 or West Ayton SE 9884
or East Ayton SE 99 85

BALLOWFIELD FARM, Carperby, Yorks

See SEATA MINE

BAND HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

BARBARA LEVEL, Melbecks, Yonks

See OLD GANG MINES

BARNES END, Reeth, Yorks

See BARRAS END

1" 95 Cent on SD 88 47

BARNOLDSWICK, Yorks

JR Earp et al "Geol of Clith e Nels" (1961),

Pyrite vein near Higher Park, at 882 457. At 890 470, at Rain Hall Rock, NW fault, with calcite, some baryte e blende

1" 90 Cent. on Bleaberry NY 988 012

BARRAS END M, Reeth, Yorks. (I)

See also OLD GANG MINES, ARKENGARTHDALE MINES.

OS 6" map: In Bleaberry gill: KAY HUSHES, Centred on 987010. BARRAS END LOW Pb LEVEL, 98750135; BARRAS END HIGH Pb LEVEL, 9880 0115.

KCD(1974) Witherite worked for a short time from the "BARNES END" vein.

Raistrick (1975), 59 Witherite – BARRAS

END

JIW (4/96) Dumps around 9800; 9801.

On dumps at ~ NY 98(7) 01(0) at KAY HUSHES: Malachite sprays to ½ cm; ? aurichalcite; galena; calcite; massive witherite. Interesting baryte; e.g. small translucent brown chisel-shaped xls to ~3-5 mm in rich clusters, also brown fairly compact radiating ~ 1 cm thick with xline surfaces of hemimorphite-like terminations. Both ∫. weakly fluoresc (LW, SW+LW)

BARRAS END M., Reeth, Yorks. (II)

P. Briscoe (2006) UKJMM 27, 11-14. Poltshable brown-banded baryte [a bit like "oakstone" also Hs eg chisel-prism to 1.8mm in cav in massive. good c'less transp sprays of hemimorphite Hs to ~1.5mm. Rare strontianite, cinnabar, aurichalcite, malachite; galena, sphalerite, witherite, smithsonite.

1" 90 SD ¼ 873 802

BECKERMONDS, Langstrothdale Chase, Yorks.

Geol of Ingleborough (1890), 85-86. Mineral veins: near Beckermonds, are one or two veins of copper ore trending NNE, in Carboniferous Limestone.

1" 90 near SD 946 947

BEEZY Pb MINES, Muker, Yorks.

1" 90 Around NY 902011 — 907009

BELDI HILL MINES, Mulker, Yorks

OS 6" map: "Beldi Hill Lead Mines" at above map ref. "Oldfield Gutter" NNW-SSE, cont. on 903011. "Landy Pb Level" at 906009.

RSWB (5/70) V, 170. Dumps at NY 906009, behind Crackpot Hall (sic!) glanced at in passing — galena, sphalerite, calcite, baryte. Dumps at Oldfield Gutter, NY 902010 not visited.

BELL'S SHAFT, Melbecks, Yorks

See OLD GANG MINES

1" 90 SD 842 645

BEN SCAR, Settle, Yorks

A. Raistrick, The Naturalist (1938) 975, 119. Around Benscar [=Ben Scar 842645] and behind Attermire [843641 – 840645] e on High Fell [=High Hill, 83363] 3-4 deep shafts under Benscar e several large opencuts on the fells nearby. Veins of baryte and calcite, with scattered galena, anglesite, traces cerussite, pyrite, malachite, azurite, chalcopyrite,

smithsonite, witherite, and a little fluorite and quartz.

GR Pers Comm ~1986 At ~841646, in a little dry hanging valley ~NW-SE, above Aetmire Scar & below Ben Scar, on SW side of valley above valley bottom, 2 shafts, one covered with a sheet of iron, other partly run in w. a used cavers' entrance hole. Below the first (N-most) shaft, overgrown dumps have bothy fibrous arag or calcite (not checked yet), some xlined quartz. Otherwise barren

another sh. further N on NE side of valley some vein calcite & spongy quartz only.

No other workings found.

1" 99

TA ~~B 004 400~~

BEVERLEY, Yorks

03, 04

TMH(1868), 71: Albite, in Chalk w. Greenstone

G+L(1858): Albite, crystallised, in greenstone.

OS Gazz only "Beverley" at TA 0339,

SE 3158, 3258, 3358, 3357 "Bilton Bank" ~~3158 3458~~.

BILTON, Knaresborough, Yorks.

See also The NIDD; FOREST MOOR; GREEN HAMMERTON; SCOTTON MOOR

Geol. of Harrogate (1908), 38: Celestine on banks of the Nidd at Bilton (J. Sowerby, Brit. Min. (1817), v, 75, tab 444, & other refs cited on "The Nidd" card
Gypsum in the Magnesian Limestone

Edin. Phil. Journ. (1825), xii, 178: Celestine, yellowish white, radiated, at Bilton, with gypsum

1"84 NY 81 7 270-8

BIRKDALE HUSH, Lunedale, Yorks.

KCD(1948) 312. Vein worked opencast for 1500', 3/4 mE ESE of Birkdale Farm. Four levels. Baryte on dumps, assoc. with galena & siliceous veinstuff

BISHOP SHAFT, Arkengarthdale, Yorks

See PUNCHARD GILLS

1"90 SD 957 799

BISHOPDALE GAVEL MINE, Bishopdale, Yorks

See (also) BUCKDEN GAVEL MINES

A. Raistrick "Mid-Penn" (1973) 138-143. N part of Buckden Gavel vein complex

A. Raistrick "The Pb ind...." (1975) 94. Flats. Shafts, opencasts, a level. Cerussite & anglesite moderately abundant

RSWB & R. Lamb (18/7/82) Scattered small dumps & tailings over fairly large area cent. on ~957 798. Matrix grit > limestone. Some

galena some w. white alt. rim cerussite, mostly massive, some ~~some~~ small tab. x/s in friable "limonite"-gozzan. Much gozzan. Some fragments massive jaspery haematite. Much baryte; small x/s, mostly ◇ → "witherite indic" habit. Much "dry-bone" smithsonite occas complex brownish rhombs → ~ 2mm. Hemimorphite, c'less → brown, mostly tiny, but occas ~ 1cm x/s! yellowish compact powdery coatings jarosite common on recryst grit (i.e. quartz).

1" 84 NY 8[4?] 2[8?]

BLACK ARK, Lunedale, Yorks

See also THISTLE GREEN,

NCD (1948) 313 Line of shafts @ ca 1700' OD along Black Ark vein in the headwaters of Black Ark, with baryte & subsid galena. A level from the foot of White Force prob. did not reach main vein. Level dumps have a little baryte

Around SE 092 632

BLACK HILL MINES, Appletreewick, Yorks

See also CRAVEN MOOR MINE

RSIOB, TBG. III, 112 (6/7/63). Extensive dumps, around 092 6325, partly dug away fairly recently. Calcite, incl. good nail-head; fluorite; galena; baryte, platy, cockscomb, & massive. On Craven Moor near Stump Cross Caverns

BLACK HILLS LEVELS, Arkengarthdale, York

See ARKENGARTHDALE M's.

1" 90 SD 939727

BLACK ROCK MINE, Hawkswick, Yorks

See also COLD STREAK M.

McGill (1994) "...Wharfedale..." 79-80. On a weak vein from COLD STREAK to the grit. Worked 18th & 19th Cs. [Pb presum

BLACKSIDE VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

BLACK WHIM, Arkengarthdale, Yorks

See ARKENGARTHDALE Mss.

1" 90 Near NY 940028 and 941023

BLAKETHWAITE LEVELS, Melbecks, Yorks

See also OLD GANG MINES

OS 6" map. Lead levels in Blakethwaite Gill CN extension of Gunnerside Beck.

KC Dunham (1974) 299 Witherite

BLEA SCAR RAKE, Wharfedale, Yorks

See COLD STREAK M.

BLIND GILL LEVEL, Melbecks, Yorks

See LOWNATHWAITE M'S.

BLOW GROVES RAKE, Buckden, Yorks

See BUCKDEN GAVEL M's.

1" 90 About NY 818038, 81903

BLUE JOHN HOLES, Muker, Yorks

OS 6" map shows "Blue John Holes" at above map refs.

RSWB, GR 29/5/70, V,

Beautiful small caves, swallets, pot holes where stream runs underground. Several shaft-like natural pot holes. Good fossils, no sign of any mineralisation apart from rusty appearance of stream

1" 90

SE 015 944 – 020 930

BOBSCAR Pb MINE, Castle Bolton Yorks

See also APEDALE Ms

OS map. Also BOBSCAR RAKE (NNW–ESE) at above map ref.

and BOBSCAR Pb LEVEL (at APEDALE M.) 015 948

BOLTON GILL, Hebden, Yorks

See HEBDEN M's.

1" 90 SE 029 930

BOLTON PARK Pb MINE, Castle Bolton, Yorks

OS map. Also LEVELS to S at 0305 9230, and 0300 9275

BOOZE WOOD LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

BOTTLE LEVEL, Hebden, Yorks

See HEBDEN M/s.

1" 86 NZ 7519

BOULBY, M., Cleveland, Yorks. (I)

Notholt, A J G, "Potash", Min. Dossier, Min. Resrcs. Consult. Cttee. 16 (1976) MA 77-1566; 28 [2] 148 (1977).

The Boulby potash bed in Cleveland, ~ 5×10^8 tonnes, average >25% equiv K_2O, up to 11 metres thick, of soluble K salts in Upper Permian. Depth ~1100-2000 m.

RSWB 83-119 Ex R. Tayler. Sylvine, sharp cubes & cubo-oct -> > ½ cm clustered on a

massive "salt" matrix [untested]

RJP. Lamb, Priv. Comm. 6/90. Visited, to -4000 ft e several km under North Sea. Halite, sylvine, mostly well-coloured with iron. given carnallite and boracite, pale greenish blue with small well-formed xls. (Presumably from this mine).

Green, D.I. & Freier, M.D. (1996) "The Boulby mine, Cleveland, England" Min. Rec. 27, 163-170. History, geology; mineralogy. Anhydrite

BOULBY M., Cleveland, Yorks. (II)

boracite [superb photos & superb specs]; carnallite; cuprite v. rare; dolomite (Stewart, E.H., 1949); ericaite, a few - the world's finest; gypsum; halite; haematite; v. fine hilgardite (orig. recorded as "α-tyretskite [Hödenburg & Kühn, 1977] and as "para-hilgardite" [obsolete names] [Milne, 1978], F. common, c'less to pinkish; magnesite; pyrite; quartz; rectorite (rare); rinneite (rare); sylvite; syngenite (post-mining?).

BMS Newsl. (1997) 47, 3. BMS Coll Chalcopyrite, pres. D. Green

Green DI & Freeer MD (1994) UKJMM 14, 4-8

Borate nodules, typically a few cm diam, at a distinct horizon ~1000 m below ground. Aggregs of spherulitic blue-green boracite & rare masses of aquam-blue euhed. xls of ferroan boracite. Also hilgardite-1O and magnesite

RSN (2001) 39 20. D. Green. Trembathite :- $(Mg,Fe)_3B_7O_{13}Cl$. hex; congolite $(Fe^{II},Mg,Mn)_3B_7O_{13}Cl$. trig. pale mink-brown 4 mm xl on sylvite pict. in Mindat.org 4/10

D. Green (2005) UKJMM 25, 31-32. Boracite, blue xls, trembath-congolite (hex) series - brown xls

NY 99 13

BOWES, Yorks

TMH(1868), 71: Mill gate Yored. Baryle

G.M: Baryle.

SE [illegible]
110863 - 120859

BRAITHWAITE MINE, East Wilton, Yorks.

Dunham "Fluorspar" (1952), 69-70. WNW vein worked from shafts
e drainage adit from river bank. On dumps nr. adit
mouth: fluorite; baryte; calcite; galena.

RSWB 2/6/62 Field Reps Vol II p61-62. Fluorite, colourless cube
baryte, white sheafy; chert; galena cubes with smal
cerussite x/s; tr. ?? aurichalcite.

1" 97 SE 42 42

BRAMHAM, Yorks.

UKJMM (1993) 12 p 27. G. Fletcher: In road cut near Bramham, Yorks, baryte, calcite, goethite in Magnesian Limestone.

Crystal Vine Cat (6/01). Roadcut on A1 near TENTER HILL [Not on 1" OS map], Bramham, W. Yorks: "Sandstone-like matrix" with pocket with calcite xls ("aver. 4mm"); baryte xls, pale yellow, slightly frosted (to 1.5cm on edge); chalcopyrite. Baryte also "nicely xline white >1cm across, almost nicely terminated")

INCLINESHAFT.

BRANDY BOTTLE DRIFT, Old Gang Mines, Melbecks, Yorks.

See OLD GANG MINES

KCD N-F (1959) 139. Some recent underground trials show broad vein with much barytocalcite gangue still in place. Barytes, witherite

1" 95 SD 649 548

BRENNAND MINE, Bowland Forest High, Yorks

See also WHITENDALE M.

GS 1" map, old series shows ~ EW vein.

A. Raistrick "Pb min'g in mid-Pennines" (1973) 163-8

Map, p165, showing named lodes e Brennand level. E-W VEIN, HUSH V., KNOWLES V., RESERVOIR LODE, WILLIAM V., WHITENDALE NS V., RAKE V., Gt. MEADOW V., BLENDE V. Includes WHITENDALE MINE (E part of selt, around SD 658 550) History. ~~Veins short irregular, patchy~~ Baryte; ~~occasionally~~

fluorite, sphalerite, galena, calamine [smithsonite?], calcite, dolomite. High Ag content in surface ores. Worked in Elizabethan times. Short mineralised faults in l'st e shales, with galena e baryte, some fluorite, a little sphalerite e "calamine" [smithsonite]. Part of WHITWELL M's. Bell-pits, shafts, a day-level. "A few v. fine specs of baryte e fluorspar" on shaft heaps "with some blende, calamine e traces of aurichalcite".

1" TA 17 66

BRIDLINGTON, Yorkshire

G. Mus; donations (1967): Miss J. Stubbs - amber from beach. Miss. M. Taylor - amber from south beach.

1"90 Cent. on SD 988 915

BROCK HOLES, Carperby cum Thoresby, Yorks

See also WET GROOVES M.

OS map. Old lead mine.

1" 95 SD 934 569

BROCKABANK, Winterburn, Yorks

See also HETTON

McGill (1994) "...Wharfedale..." 89. Lead trial
In 1705 & prob 1770's.

6" Yorks (W.Riding) 287 NE SK29

BROOMHEAD MILL, Bolterstone Chapel, Yorks

S. of Penistone; NW of Sheffield. ~~"Broom~~ "Broomhead Hall" on my old 1/4" map & on 6" map.

W Riding 281 SE, 287 NE. SK 20, 29?
On 282 SW, SW corner, mines shown (coal?)

Farey's List (1811). In grit. Lead; Black Jack [blende].

RSWB 1/4/62 Field Reps II p 27. Acc. to native, "mines" now under reservoir, & flooded." & probably of considerable volume as reservoir "drained into the workings & had to be refilled."

1" 90 Cent. on 977 931 SD

BROWNFIELD Pb MINE, Carperby cum Thoresby, Yorks

1" 90 SE [redacted] 01 97?

BROWNGILL M., Grinton, Yorks.

See also GRINTON MOOR M's etc.

LOT et al (1995) The Grinton Mines; Brit Min'g 51, p7[redacted]
At head of Browngill E of Guy M. [Pb assume

1" 90 SD 957799 - 961779

BUCKDEN GAVEL MINES, Buckden, Yorks (I)

See also BISHOPDALE GAVEL M.

A. Raistrick "L'd Mining in the Mid-Penn's" (1973) 138-143
NS veins 961779-957799. Bishopdale Gavel mine, at N end of veins [In Bishopdale PH] Vein a complex in echelon. 3 horizons with flats — rich working mid-19th cent. Level at N end from foot of cliff; x cut at SD 955 781 alt 3 veins, stoped.
Lead ore; in l'st & grit.

R. Matthews Priv. Comm (4/78). Spec → RSWS (78-109)
Smithsonite, rich pale yellow

mamillary, coel. underground.

A Raistrick (1975) "The Pb indust. of Wensdale & Swaledale: Vol I The Mines" p 94. "Buckden Gavel" S of the boundary, "Bishopdale Gavel M" to N. Rich flat opencasts, shafts, at least one level. Cerussite & anglesite moderately abundant.

RSWB & R. Lamb (18/7/82). No surface indications high on hillside near E/st-grit boundary. Level in gill at 953 7805 open, well-ginged, w/ 2 med. sized dumps. galena alt'd to cerussite. Much baryte gangue, with

BUCKDEN GAVEL MINES, Buckden, Yorks (II)

x/s → small tab. in clusters & "witherite-indic" habit x/s, Much "limonite" gozzan. Jarosite common, compact powdery coatings; some calcite, including "octahedra". Much "dry-bone" smithsonite, some as fragments of thick greenish-yellow crusts. Hemimorphite incl some (weathered) x/s to ~ 1cm.

MCGill (1994) The Wharfedale Mines, 11-24. History, indust. arch., photos, plan p 18.
DOD FELL VEINS (named) SD 8483, SLANT GATE HEAD V/s SD 949 771; B. GAVEL SD 9579;
Smelt Mills at SD 954 781 & 933 768 PTO

B. GAVEL M's :- BLOW GROVES RAKE ^ SD 958 795,
TAYLOR RAKE SD 959 795.

A. Raistrick (1973) Lead Mining in the Mid Pennines
pp 138–143

M. Wolfe et al (2008) UKJMM 4-22. P12. Vg
bright yellow smithsonite. Photo.

BUNTING LEVEL, Melbecks, Yorks

See OLD GANG MINES

BUNTON HUSH & LEVEL, Melbecks, Yorks.

See OLD GANG MINES

1" 90 SE 02 61

BURNSALL, Yorks

OS map "Lead" shaft at 022 609 by Joy BECK.

MCgill (1994) "... Wharfedale..." Thorpe & Burnsall Fell coalfield

1" 90 SD. 895 887

BURTERSETT STONE MINES, Hawes, Yorks

(Harold's friend)
Richard Matthews Priv Comm 8/78 Melanterite; [at 895 887] with thin coal seams in stone.

BYCLIFFE VEIN, Stonebeck Down, nr Pateley Bridge, Yorks

See MERRYFIELD MINE

CAM HILLS M., Kettlewell, Yorks.

See KETTLEWELL M's

VICTORIA M, Kettlewell, Yorks

See KETTLEWELL M's

CAM PASTUREM, Starbotton, Yorks

See STARBOTTON M's

1" 90 SE 0 6
SD 99 60

CARDEN HILL, Burnsall, Yorks

See also STEBDEN HILL, LANGERTON HILL Mⁱˢ

KCD "F" (1952) 73. Purple fluorite in E-W 6" vein across N side of Carden Hill. Same vein on Stebden Hill

MCgill (1994) "...Wharfedale..." 93. CARDEN N. V, 995 605; CARDEN S. V., 995 606, E-W; A vein to NW of summit has galena in calcite + dark purple fluorite. 1753, 1830s to 1870.

6" Yorks 229 NW 1" 76 SD 92 [redacted]

CATHOLES CLOUGH Todmorden, Yorks. 91932640

(at Lydgate) of LEADMINES CLOUGH, [redacted] Lancs. PH

SRMRGB "Ba..." (1916), p. 38 Abandoned mine at Lat. 53°44' 0", Long 2°7' opposite Robin Mill on Burnley Road 1½ miles from Todmorden. A drift ¾ m long, driven ½ m up the clough. Worked for lead and barytes. Small heap of baryte lies at the bottom of the clough near the supposed position of the level — locally called "the old lead mine". In vein: galena; chalcopyrite; baryte; calcite.

RSUB, 16. (11/2/62) See Field Report, p. 233. At 91932640. Small dump e filled in adit on [redacted] E side of stream ? dressing floo on W side of stream. Galena with ? secy mins; pyrite; micaceous grit with veins of baryte - platy ebladed masses and crystals.

I.A. Williamson Proc Yorks Geol Soc Vol 30, 397

Mine at 919264. Worked 1755, & later attempts. Lode 3–18", ore in nests (Kerr 1875). Several adits remain. Open adit ESE 100 yds upstream from baryte ?crushing floor. Other adits in opp. direction. Ca ½ mile to S, above Knolls Wood (919 260) massive & xline Ba in joints in grit. Also in NW joint almost at top of Rough Rock on the W stream bank in Green's Clough (892 260).

1" 90 NZ 046 023

CAT SHAFT, Marrick, Yorks

See also ~~ARKENGARTHDALE Mts~~, HIND RAKE etc
WELLINGTON BARF END M.

OS 6" map. Lead shaft on Hind Rake

1" 90 SE 065 935 – 072 923

CHAYTOR RAKE, Preston under Scar, Yorks

See also STOPMORE RAKE
?=CLAYTON RAKE

OS map: NNW–ESE, crossing STOPMORE RAKE
Has FOREFIELD Pb SHAFT 065 935
WIDE Pb SHAFT 0675 9315

1"90 SD 918 677

CLAPHAM HIGH MARK VEINS, Malham Moor, Yorks.

See also DEW BOTTOMS, PROCTOR HIGH MARK.

McGill (1994) "...Wharfedale..." 72-4. 4 veins.
[Pb presumed] Map, p 76

CLEABURN PASTURE, Manske, Yorks

See MUSGROVE PASTURE

1"90 Cent on SE ~~NW~~ 0055 9345

CLEAVER'S MINING GROUND, Castle Bolton/York

CLEAVERS RAKE Pb MINE.

1" 90 Centon NZ 093 023

CLINTS MINE, Marske, Yorks.

OS 6" map. Lead mine, levels & shafts on Marske Moor from near 089 025 to near 100 020

1" 84 NY 835-860 230
224

CLOSEHOUSE MINE, Lunedale, Yorks. (I)

KCD (1948), 55, 63, 94, 97, 119, 314, 343. Ba.

On the Lunedale Fault. Large, water-clear bar
crystals in replacement deposit. Very litt
galena present. - A series of hushes. prese
The S opencast at West Hush 500' S of the
orebody on the N fault, shows a 4' vein
of coarse baryte, with traces galena and
pyromorphite

J.A. Hill & K.C.D., Proc Yorks G.S. (1968) 36 351-372

Details. Baryte; a little ankerite; quartz; calcite; galena; pyrite.

RS Collins. Min. Res. Cons. Ctee, Min. Doss 2 (1972) "Ba mins". [MA 73-2

Only surviving baryte mine in UK; vein up to 17m w
Main deposit replacement of a qtz-doler dyke; large
lenses of white Ba in shale a little further W

RSIOB 26/4/76 Reopened, working two levels
underground from an incline - baryte vein
said to be up to 50ft wide. Sporadic
galena, traces Cu; no Zn or fluorite. Looked
at West Rush. Massive → platy white baryte
a little galena in one cavity oxid → nat. sulph
+ massive ? cerussite. Green pyromorphite, small xls on bary

Around 850 227

CLOSEHOUSE MINE, Lunedale, Yorks. (II)

KCD N-F (1959), 138. Working for barytе

KCD NP I (1948) 314-6. Barytе, incl. water-clear. The southern opencut on the Closehouse-Standards Fault — West Hush, 500 ft S of the orebody on the North Fault, reveals 4 ft wide vein of coarse barytе, with traces of galena and pyromorphite.

RSWB, TBG, III, 94-95 (1/6/63). Working. Plant at 850 227, at foot of WEST HUSH. Barytе,

galena, anglesite, blende. ?aurichalcite.

B. Young, T. Pettigrew & T.F. Bridges (1985) Trans. Nat. Hist. Soc. Northumbria, 54, 31.

Rosasite, rad. sph's & patchy fibr. xline encrustns on baryte, quartz ± up to 3mm diam. grains chalcopyrite & sphalerite

B. Young, T. Bridges & E.K. Hyslop (1994) J. Russ. Soc. 5 121-3

Leadhillite in one block of recently-quarried veinstone, in small cavs in ox. galena-baryte. Hex prisms 1mm long x 0.75 mm across [XRD - susannite lines absent]. Ass. w. cerussite, anglesite, traces malachite, linar-

CLOSEHOUSE MINE, Lunedale, Yorks (III)

AGM field meeting reports

R. Soc. Newsl. (1994) 25

Closehouse Mine, Lunedale, ~~Co. Durham~~ - YORKS

Friday 8 April 1994

Leader: Brian Young

The Closehouse baryte deposit comprises a wide vein and associated replacements developed in a metasomatised dolerite dyke of the Whin Sill suite emplaced in the Lunedale Fault the major syn-Carboniferous growth fault which here defines the southern margin of the Alston Block. Baryte is the dominant mineral with only minor galena and traces of sphalerite. Small amounts of supergene minerals including pyromorphite, cerussite and anglesite, the latter commonly well crystallised, are found from time to time.

Although examples of most of these were seen little of note was found on this visit. Before leaving however a bonus for those interested in such things was a small pile of Aberfeldy baryte rock awaiting trial milling in the Closehouse plant.

*

Young et al. J Russ Soc (1994) 5 121-3 (Cont'd)

Also known from here: aurichalcite, rosasite, pyromorphite, Leadhillite

Lionel Burch

19 September 1993 Closehouse Quarry, ~~Durham~~ RSN (1994) 24 Yorks

Twelve members and one guest arrived at the quarry road at the 10.00am start time. Fortunately the gates were open thus avoiding a lengthy walk.

Having completed the formalities with the Quarry Manager, the assembled group then spread out across the extensive tips. The party had virtually open access, except within the opencut. A brief

... PTO

examination of the opencut, from a safe distance, indicated little or no mineral in evidence. The floor of the opencut was largely flooded, and also had a good deal of accumulated scree.

Baryte of indifferent quality was readily found on the tips, with Ian Dossett finding clear crystals to several centimetres in thick clay. Rosasite as coatings on white baryte was found on tipped material, again of fairly poor quality. Pyromorphite was also found as was malachite associated with transparent baryte crystals on a large boulder adjacent to the main office area. A 25mm galena vein on a large boulder at the extreme north end of the tips revealed two specimens of anglesite and some very reasonable cerussite collected by Brian Young.

We would like to thank Closehouse Minerals for allowing the visit, and in particular Mr D Elliot, Manager for his cooperation.

T. Bridges & B. Young (1998) J. Russ. S.

Covelline, dk blue coatings on well ox'd galena (at 850 228). Cuprite, small masses to 1 mm across. Sulphur, thin crusts of xls → 0.5m pale yellow, with covelline, 5 mm → several cm² on Ba anglesite, cerussite.

Aurichalcite; rosasite, spherules → 1 mm on baryte. (Young, Miet al 1985, Trans Nat Hist Numb 54, 31). Pyromorphite on baryte. Leadhillite, tex prism → 1 mm in ox. gal-Ba

COBBLER HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE M's!

1" 90 SE 060 930

COBSCAR (SMELTING) MILL (Pb), Redmire, Yorks

See also COBSCAR RAKE

RPH Lamb, spec → RSWB 8/96 (96-108)
Red lead oxides (litharge + minium?)
CFTIR, 20/8/96: red glassy grains = Pb-O bonds, minor sulphate - poss mixture of litharge with minium?).

A Naffrass 10/05 At 0525 943 on Preston Moor. Spec's → RSWB
Black shiny masses with ?tetrag bipyr. xls in cavities <1; translucent brown under microscope; strongly magnetic

M. Jones XRD: dark brown-black lustrous xline translucent magnetic = FAYALITE + some MAGNETITE ?+ minor ?. A sample finely powdered and exposed to magnet; powder that jumped to magnet: XRD = FAYALITE

1" 90 SE ~~NW~~ 045930 – 061930

COBSCAR RAKE, Redmire, Yorks

See also STOPMORE RAKE; COBSCAR MILL

OS map: Includes COBS HUSHES 045930-049930.
Cobscar Rake, E-W to STOPMORE RAKE (to E)
Preston-under-Scar PM.

R & PHLamb, Priv. Comm. 6/90 Hemimorphite

COBS HUSHES, Redmire, Yorks.

See COBSCAR RAKE

SE 16?

COCK MINE, nr Pateley Bdge., Yorks.

GMus. "Cock Mine, nr Pateley Bdge" — Calcite with galena & strontianite. [? = COCKHILL MINE?]

COCKER RAKE VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE Ms

COCKER SHAFTS (LOW, HIGH), Arkengarthdale, Yorks.

See PUNCHARD GILLS

SE 115 649

COCKHILL ADIT, Beverley, Yorks

See also COCKHILL & SUNNYSIDE MINES etc

SE 115 649

COCKHILL & SUNNYSIDE MINES, Beverley, Yorks.

See also COCKHILL ADIT, GILLFIELDS LEVEL, SAM OON LEVEL, JACKASS LEVEL, COCK MINE

RSWB, GR, TBG, 7/7/63 Vol III pp17-8

Cinnabar, one small scarlet patch on altered galena. calcite, including good "nail-head spar," fluorite, baryte.

RSWB TBG AWGK 29/9/63 Vol III pp17-18

Pyromorphite

AWGK MM (1968) 37 xlii Exhibit. See PGE "44th List" MM 42 322 (1978). Metacinnabarite, massive

with cinnabar in barite-fluorite-calcite
at COCKHILL MINE (GR 2001): ~~do~~ metacinn.
very doubtful – ex Mexico!)

1"90 SE 04959700

COGDEN GILL Pb LEVEL, Grinton, Yorks.

1" 91 Cent. on SE 124 642

COLDSTONES QUARRY, Bewerley, Yorks (I)

RSWB, TBG, AWGK, 9/63. IV, 18: Large working l'st qu. with interesting stratifications. W end shows signs of veining, & old mine workings. Platy barytę; galena; fluorite, good groups of small (ca ¼ cm) purple-spotted x/s. Calcite, nail-head.

AWGK priv comm said he found, on a later visit, "nice nail-head "calcite with tiny carmine-red x/s..... (?)

H. Winstanley 5/74 Calcite, rhombohedral

crystals, bevelled edges! Fluorite, some with purple edges. Galena, cubes sprinkled with brownish cerussite. Platy baryte

RSWB 28/4/75. As above + a little malachite on baryte with fluorite.

Carol Ryde (1987) "Rock Bottom" 2, 19. Now worked by Pioneer Aggregates (UK). Fluorite, blue tinged cubes → 1" also yellow & "clear"; baryte, white to pink cocks'c on fluor; calcite, xls rare occas butterfly twins; galena; cerussite → ⅛"; anglesite → ⅛"; hemimorphite, micro xls; Smithsonite, ⅛" brown botry xls.

COLDSTONES QUARRY, Bewerley, Yorks (II)

GR (SECRET info, 11/92 B. Young involved)
Prosopite(!) $CaMg_2(F,OH)_8$ white to blueish-white powdery crust. Otavite (!!) (2nd world loc) rhombohedra on hemimorphite x/s. ↓

B. Young, G. Ryback, RSWB and JG Francis "Prosopite, doyleite & otavite from Coldstones Q., Pately B'dge, N. Yorks" Min Mag (1997) 61 895-7

Fluorite, baryte, galena, sphalerite, hemim., smithson., ceruss., cinnabar, aurichalcite, rosasite. Now, from

Garnet v on S face of Q, prosopite white to pale bluish soft masses to ~ 1 cm (actually aggs of micro-blades), embedd in thick brown encrusths on fluorite. Doyleite, v soft white powdery filling small (→ 3mm) cavs in fluor; often with the prosopite. Otavite calcian, nodul→ rhomboh, to 2mm on hemi, smiths of fluorite.

All 3 new to Britain.

RSN (1999) 35 16. Pyrom. x/s in stringers in the "Garnet V." (close to Shales) also fluor, galena, baryte, calcite, smithson, cinnabar, ceruss, anglesite.

p21-2. similar + aurichalcite

COLDSTONES Q'y, Bewerley, Yorks (III)

RSN (1992) 23

Coldstones Quarry, Greenhow, N.Yorks.
10th May 1992

On a rather blustery morning 20 members turned up anticipating a rather unusual treat, that of collecting in a working quarry which had been closed to all collectors for a number of years. In the past the quarry had produced good specimens of fluorite, typically shaded blue at the edges, baryte, hemimorphite and smithsonite.

Today, after a brief introduction by Simon Broad to the geology of the area, he took us to the vein on the first bench explaining that the minerals were better lower down. However, enough was found there to keep all the members busy for about an hour, and then he suggested moving to the second bench. It was here that members started to find, along with the usual minerals, some red coating which after discussion was thought to be cinnabar - a first for the quarry. Later in the afternoon we went to the bottom of the quarry to check a galena vein for cerussite and anglesite.

Collecting was interrupted by a couple of hail-storms which fortunately were light and soon over, and not enough to deter the enthusiasm of our members. Emerging from the quarry with most of our goodies riding in the van driven by Simon - thank goodness for that - the remains of a large block of fluorite were dissected for the large hemimorphite within.

Finally at about 4.30pm we reluctantly said 'thankyou' to Simon for an excellent day's collecting and left wondering when we might next have an opportunity to collect in this remarkable quarry.

Minerals collected included fluorite, baryte, hemimorphite, smithsonite, cerussite, anglesite and cinnabar.

H. Critchley

RSN (1997) 31, 12-13
Visited 4/97. As before
P14-15. Visit 5/97.

RSN(1998) 33; 14-15, 17. On GARNET V., a fluorite block w. vughs w. smithsonite, cinnabar, lustrous 2y calcite; galena w. cerussite x/s. hemimorphite; anglesite x/s → 1 cm! Pyrite, marcasite; pyromorphite ("neo to q") on grit; baryte.

RSN(2000) 37, 17. Visited 5/2000. As usual. No Ce sec's. hemi > smiths. F. large cerussx/s, plenty cinnabar. p18. Visit 8/7/00. good hemi - GARNET V. Rosas? auri, angles, cerussx etc.

RSN(2001) 39 16. Visit 5/01. As usual.

RSN('02) 40, 25 Visit 7/01. As usual.

COLDSTONES Q'y, Bewerley, Yorks (IV)

RSN('03) 42, 25. Visit. As above.

RSN('04) 45, 37 Visits. Vg hemim ex Sun V. good xls galena. "nice" angles & cerussite. Micro xls malachite ("a few"); "apparently azurite has also been found previously, both unusual for this quarry"

RSN('05) 47, 37 38. Visits. Nothing new

RSN('06) 49, 32

1" 90 SD 9471

COLD STREAK MINE, Hawkswick, Yorks

See also BLACK ROCK M.

M C Gill (1994) "...Wharfedale..." 79-80; photo 78, plan, p. 81. Several veins eg GREAT SPEAR vein 947 718; BLEA SCAR RAKE 946 716 with spectacular outcrop on hillside. Worked 18th & 19th C's. A small cave in the workings 3 feet of calcite, a little lead ore.

CONISTONE MINES, Yorks.

See MOSSDALE, MOORHEAD, OUTMOOR Mts.

1"~95 SD 980 462

CONONLEY MINE, ~~Skipton~~, Yorks. (I)

See also RAYGILL MINE, Lothersdale.

TMH(1868), 71. (Pb). Cerussite. "Cononley Mine, Skipton, Yorks

SRMRGB II, Ba (1915), 41 White & pink platy barytes, also a little witherite, & calcite

OS 6" map shows "Cononley Lead Works" at above loc.

GeL(1858) 392. "Connonly" – Cerussite, "finely ×lised"

RSWB, TG, Bruce Guy 5/5/63. Vol III pp 73-76 Dumps, rims, shafts, opencast (some way), and adit in stream valley (blocked after 50 yds). From dumps: barytes enterable incline (explored). Calcite in joints in opencast; galena; traces Cu stains; trace ?linarite

native sulphur in corroded galena. From incline: gypsum with yellow powdery jarosite [IR]; baryte; galena x/s; some Cu staining with tiny ?linarite x/s; chalcopyrite sprinkling baryte cocks combs e x/s.

A. Raistrick (1975) "Lead mining in the Yorkshire Dales" 27-8.
Single large vein: worked by bell pit 16th e 17th C.
Worked from 1830 - a shallow level from the side of Nethergill (a narrow gill) "BRIGG'S LEVEL" → much of the ore was soft carbonate of lead (= cerussite).
Smelt mill started low in Nethergill nr Conouby Vill.
Other levels, incl a Deep Lev. Crosscut cut vein at 205 fm. shaft e incline to this lev, then other shafts.
Closed 1876. Reopened betw wars e in WW 2.

A. Raistr (1973) "Pb Mng in Mid-Pennines" pp151 ⇒.
baryte, some witherite, calcite
Gangue

CONONLEY MINE, Cononley, Yorks (II)

Geol Bradford e Skipton (1953) 151-2.
Sections (after Eddy, 1882). galena, a little sphalerite, smithsonite, baryte, witherite calcite, pyrite; a seam of coal 15 in. thick.

1" 90 SE 059 957

COOPER Pb SHAFT, Ellerton Abbey, Yorks

COPPERTHWAITE LODE, Reeth, Swaledale, Yorks

1" 90 NZ 05 00

GR&GS, 8/65 Cinnabar, red powdery, in quartz + decomp blende matrix. Fraipontite, white coating - one specs only (BM, X-ray)

KCD "F" (1952) 68: A little fluorite in places along the hemimorphite-galena-baryte Copperthwaite Vein, gashing Fremington Edge. Fluorite not economic

OS 6" map: "Copperthwaite lead mine", 048000 - 065005 (ENE - WSW)

RSN(1997) 31, 15. Visited 6/97. ~2nd E-W vein; bell pits etc. Baryte abundant; fluorite v. local; a little cinnabar; hemimorphite common. Vg views. A little aurichalcite.

1" 95 SD 96 43

COWLING Yorks

JR Earp et al "Geol of Clith e Nels" (1961)

Galena, baryte, calcite, on dumps at 962438 and 965437 on a vein. Also narrow baryte vein at 968406 [Ickornshaw Moor - 1" OS map]

GS 1" map shows a NW Pb/Ba vein at SD 961440 - 967436.

1" 90 Cent on SE 07 93

CRANEHOW BOTTOM MINE, Preston-under-Scar, Yorks
= CRINA BOTTOM
See also KELD HEADS M.

Dunham & Wilson (1985) N. Penn. Orefld, Vol 2, pages 163, 174, 176-9. Part of Keld Heads complex.

R J P Lamb, Pers. Comm. 6/90. Aragonite, from "CRINA BOTTOM".

1" 91 SE 10, 639

CRAVEN CROSS MINES, Appletreewick, Yorks

RSWB, TBG, AWGK, 9/63, IV 16: Just S of the main road; considerable dumps around ruins of a shaft tower. Little of interest on dumps; some baryte, fluorite, calcite, galena.

Appletreewick SE 09 63

CRAVEN MOOR MINE, (nr Pateley Bridge) Yorks.

See also BLACK HILL MINES [3=]

TMH (1868), 71. (Pb). Minium.

G+L (1858): Near Craven: minium; fine cleavable galen

Around SD 68 47

CRIMPTON, Bowland Forest Low, Yorks.

See also ASHNOTT

P. Smith, Priv. Comm. (1963). Old mines here, "a rake working" of Ashnott.

OS 6" map shows "Sulphur Spa" (? well), at 683470

RSIOB, TBG, III, 122, (21/7/63) Drove past but could see no sign of workings

1" 90 Around SE 07 93

CRINA BOTTOM, Preston-under-Scar Yorks

SEE CRANEHOW BOTTOM See also KELDHEADS M

RJP Lamb, Pair. Comm. 6/90. Aragonite from Crina Bottom.

CRANEHOW BOTTOM. Dunham & Wilson (1985) N. Penn. Oref'd, Vol 2, 163, 174, 176-9

1"84 NY 92 25

CROSTHWAITE WHINSTONE QUARRY, Holwick, Yorks.

See also PARK END

1" 90 SD 95 89

CUBECK, Bambridge, Yorks

OS map: "Old shaft" at 956 8950 in village

DAGGETS LEVEL, Stainton, Yorks.

See STAINTON Pb MINE

1" 90 SD 86-7 98

DAM HILL, Muker, Yorks

OS 6" map shows "Old Lead Mine" at 865 984, and "Trial Levels" at 871 987, 871 985, and 875 984.

DAM RIGG LEVEL, D.R. CROSS HUSH, Arkengarthdale Yorks

See ARKENGARTHDALE M's

DANBY LEVEL, Arkengarthdale, Yorks

See ~~AR~~KENGARTHDALE M's

DANE VEIN SHAFT, ~~Skelbrooks~~ Reeth, Yorks

See OLD GANG MINES

1" 90 SD 936 701

DARSEY RAKE, Arncliffe, Yorks

See also ARNCLIFFE CLOWDER, MERRYBOTTON

McGill (1994) "...Wharfedale..." 77-8; Map p 76.

DARSEY = DARCEY = DAWEY = DAVEY = DAISY RAKE nr bottom of Coke Gill ~ 1 mi S of Arncliffe Vein e strings for 655 yards W, opencast. 2 levels. Working 1701, 1747-8 & later up to 1847. Lead ore, about 3½ tons/year recorded.

1" 90 SE 05 95

DEVIS HOLE Pb MINE, Grinton Yorks

See also GRINTON MOOR M's etc.

LOT et al (1995) The Grinton Mines, 58.
Mine plan p60-61.

1" 90 SD 917 693

DEW BOTTOMS, Malham Moor, Yorks

See also LOW COTE MOOR; CLAPHAM HIGH MARK.

A. Raistrick, The Naturalist (1938) 975, 119. In Dew B., between Parsons Pulpit and Cowside Beck, veins with a little galena, smithsonite, chalcopyrite. Trials only.

McGill (1994) "...Wharfedale..." 72-74. DEW BOTTOM MINE. History, ind. arch. Working in 1677. Lead mine. Early use of gunpowder. ↳ 1746 & 1804. Map, p 76

DICKINSON LEV., Hebden, Yorks.

See GROOVE GILL V.

1" 90 NZ 08 03

DICKY EDGE, Marske, Yorks

See also THRINGILL HILL etc.

OS 6" map. "Old Mine (Pb)" at 086 037

DOCTOR'S LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

DOD FELL VEINS, Buckden, Yorks

See BUCKDEN GAVEL M's.

DODGSON HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

DOLLY LEVEL, Melbecks, Yorks.

See LOWNATHWAITE M's

DOWBER GILL M., Yorks.

See KETTLEWELL Mls

DRAW WELL RAKE, Reeth ~~Melbecks~~, Yorks

See OLD GANG MINES

DRESSING SHAFT, Castle Bolton, Yorks

See VIRGIN MINE

SE 112 638

DUCK STREET QUARRY, Greenhow Hill (Pateley Bdge), Bewerley, Yorks
or GREENHOW QUARRY

Rayners' Cat. (1960). Fluorite.

RSWB; TG., 4/2/62 See Field Notes, p 230 Fluorite large colourless cubes, some with included chalcopyrite, & some with faint purple facings, in exposure of Greenhow Rake (spur in NW corner of quarry). In this Rake, shafts (open) & workings, with much clay, fluorite, galena (some in lumps ca 9" across) & small amounts sheaf ~~steely~~, white baryte.

Dunham "F" (1952), 77 Greenhow Rake, at Greenhow Quarry splits into three branches [going SE]. Large greenish xls of fluorite were being worked in the middle branch in 1942 by Mr. J. Busfield.

RSWB, TBG, III 112-113 (6/7/63). Fluorite zone including
GR, GS.
chalcopyrite; in clayey cavities behind big fluorite
x/s e on the fluorite, cinnabar, red powdery
[Evolves Hg a heating]. Platy baryte.

DUDGEON'S VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

1" 90 SE 071 964

EAST Pb LEVEL, Ellerton Abbey, Yorks.

1" 90 SE 005 615

ELBOLTON HILL, Thorpe, Yorks

See also KAIL HILL, STEBDEN HILL

RSWB, TBG, III, 111 (5/7/63). Adit at 005614 on SW side of hill. calcite; fluorite, colourless to yellowish, a little purple; galena. Excellent fossils, esp. brachiopods, which weather out well.

E side of hill has dumps e? level near 008615; on dumps; baryte; calcite, incl quite good nail-head, galena; fluorite; fossils. RSWB 06-4, 06-81

JIW coll 2006 Fluorite cubes to 30mm w blue edges

KCD "F" (1952) 73 Some amber fluorite occurs

among the tailings from an old level on the W side of Elbolton Hill

OS 6" map marks "Elbolton Lead Mine" at SE 009 615

MCgill (1994) "...Wharfedale..." p 94. SMITH'S V., COBBLER'S V., MIDDLE VEIN, all SE007 615. Geol Surv → at least 14 veins/strings, N 60-80°W. Shafts, opencast, 2 levels: ESCOE HOUSE L. from 0037 6161 @ 875 ft OD → 2 ~N-S veins and an EW string: plan, p 95. ELBOLTON L., from 0097 6150 @ 850 ft OD - long inaccessible some galena on dumps.

Fluorite, calcite.

1" 84 Cent. on NY 98$_9$ 101

ELLER BECK MINE, Scargill, Yorks

OS 6" map: Eller Beck Hush, shafts, and level, centred on 98$_9$ 101

1"84 Cent. on NY 990 070

FAGGERGILL MINE, Arkengarthdale, Yorks

OS 6" map. Lead mine, a number of levels shown, also "Faggergill Vein", cent. on 992068, "Ovening Nick" (NW-SE) cent on 988 073

H. Winstanley 10/[illegible]76. Baryte, good clusters of "witherite-indicator" habit crystals. Galena

SE 34 60

FARNHAM, Yorks.

Geol of Harrogate (2nd Ed.) (1908), 38. Green copper carbonate .... in consid. amount at Farnham, N. of Knaresborough, "by means of galleries worked through the limestone" (W. Marshall (1826) Trans Geol Soc Ser 2 vol ii p. 140)

W. Marshall Trans Geol Soc Ser 2 vol ii, 140 (1826) ... galleries at Farnham ca 2 mls NW of Knaresb. Green carbonate investing limestone & also in small masses "seldom exceeding the size of a large potatoe" [sic!] "None is ever found now in quarries now worked at Farnham.

1" 91 NZ 11 8 042

FELDOM MINE, Marske, Yorks.
See also WHASHTON SMELT MILL

A. Raistrick, (1975) "The lead industry ...." 96-98

On Feldom Moor, 3mi NW of Richmond, long vein worked by bell pits for copper pyrite. Working in 1728. Long vein of lead & copper ores for 2 miles across F. Moor. At E cones nr. Smelt Mill Beck 1mi above Hartford Smelt Mill. Cu Mill beside beck just above Copper Mill bridge on Washton-Feldom

road. Cu slags here.

FELL END { MINE and LEVEL, Reeth, Yorks.

See ARKENGARTHDALE M's.

FELL END VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

FELL PASTURE M., Starbotton, Yorks

See STARBOTTON Mks.

SE 48 24

FERRY BRIDGE, Yorks.

TMH (1868), 71. Gypsum in marls

G+L (1858). Gypsum.

FLOAT SHAFTS, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

FOREFIELD RAKE, ~~Melbecks~~ Reeth, Yorks

See OLD GANG MINES

FOREFIELD Pb SHAFT, Preston under Scar, Yorks

See CHAYTOR RAKE

1"96 SE ~33-34 55

FOREST MOOR, nr Knaresborough, Yorks

See also NIDD, Knaresborough.

SRMRGB Sr III p52. Xls of celestite & of barytc in Permian limestone at Forest Moor nr Knaresborough, in Yorks, "See SRMRGB II"

SRMRGB Ba II, 2nd Ed'n. (1916), 44. The Perm. Limest. on Forest Moor, near Knaresborough, has been noticed by Mr G.V. Wilson [one of the authors] to contain cavities filled with barytes, with occasional xls. of celestite. The largest lumps of barytc were ca 1 ft in diam.

OS1"96 "Forest Moor Fm." 337 555 (Not near the R. Nidd

1"84 NY 854 204

FOSTER'S HUSH, Lune Forest, Yorks.

See LUNEHEAD M^ls.

FOX'S LEVEL, Arkengarthdale, Yorks

See PUNCHARD GILLS

FREEMANS VEIN, Arkengarthdale, York

See ARKENGARTHDALE Ms

1" 90 Coal. on NZ 046 001

FREMINGTON EDGE QUARRIES, Reeth, Yorks.

OS 6" map: Chert quarries, with many levels around it, presumably connected with Copperthwaite and nearby lodes

FRIARFOLD RAKE & HUSH, Melbecks, Yorks

See OLD GANG MINES

1" 90 SD 9740 9755

FRIAR INTAKE, Melbecks, Yorks

KCD "F" (1952) 68: N-S vein on N of main road, 1½ ml E of Gunnerside. Small workings, with amber fluorite (in lower limestones only - not on the dumps from workings in the Middle L'st); galena, calcite, baryte, witherite.

OS map. Friar Intake Level (Pb) at 9740 9755

GALLOWAY SHAFT, Melbecks, Yorks

See OLD GANG MINES

GALLOWAY(S) { PASTURE / VEIN, Greenhow Hill, Bewerley, Yorks.

See PEAT PASTURE

SE 11 64

GILLFIELDS LEVEL, Bewerley, Yorks.

See also COCKHILL AND SUNNYSIDE MINES, etc.

RSNOB II, 17 (29/9/63) Explored for a few hundred feet. straight for this distance. Some bright red clay (Hg-free!).

1" 90 SE 066 620

GILL HEADS MINE, Appletreewick, Yorks

See also APPLETREEWICK MINE

Dick etal 27/9/63 (IV, 13-14).

Cinnabar, closely assoc. with smithsonite, on fluorite, colourless cubes. Calcite; galena.

Unchecked

KCD (1952) "F"; p73 "SKYREHOLME MINES". Numerous WNW veins at Skyreholme Beck & Trotter's Gill & continue E, to Green Grooves. GILL HEADS

vein, WNW, worked from adit in the dry valley on W side of Middle Hill — up to 12 ft wide, of massive fluorite. Fluorite also on dumps from New Press & Whim Shafts on Wright & adjacent veins — deep purple fluorite, like "Blue John" in colour replaces limestone along the side of the vein.

SE 1 6

GILL SHAFT, Greenhow Mines, Bewerley, Yorks.

BM Spec (A.R.). Aurichalcite.

1"91 NZ 16 02 (?)

GINGERFIELD nr. Richmond, Yorks.

See also RICHMOND.

A. Raistrick (1975) "The Pb industry..." 96

Small group of Cu veins in Gingerfield, less than 1 mile N of Richmond, in Whitcliffe Pasture. ~~worked~~ Leased 1763; earlier; 1863.

1" 90 Cent. on SE 041 942

GOLDEN GROOVES Pb SHAFTS, Redmire, Yorks.

GORTON HUSH, Melbeakes, Yorks.

See OLD GANG MINES

GRASSHILL CHAPEL, "Weirdale, Yorks"

See GRASS HILL MINES, Middleton, Durham

[W. Phillips (1828) - minium]

GRASSINGTON, Yorks SE 06

~~NEWTON CANNOE~~

SE 06

GRASSINGTON Yorks. (I)

See also individual mines.

TMH (1868), 41. (Pb) Baryte; blende; smithsonite; cerussite; fluorite; galena; minium; mimetite; pyromorphite.

G+L (1858): Baryte (earthy "cawk"); pyromorphite; mimetite; galena (irridescent x/s; also slickensides).

AWGK, 1963 Rev Comm: Jarosite (→ Turf Pit), argentojarosite (→ West Turf Pit), plumbojarosite (Turf Pit), cinnabar, ?native mercury, ?metacinnabarite ↓ incl. vg x/s, in grit.

AWGK Exhibit MM(1969)×lii 37 calomel, cinnabar, mercury metacinnabarite. Minium - GRASSINGTON Moo

AWGK so Doubtful

OS maps: Smelting mill 007 633; Edge Tor Q, 009 647,
Greenhow-bottom sh, 007 659; Good Hope sh's 009 664;
New sh 017 648; Barrett's sh, 015 619; Bowden's sh,
018 658; Davis' sh., 015 657; Devonshire sh. 012 659;
Mason's sh., 016 659; Rakes (New Rakes) sh. 013 657;
Nixon's sh., 018 658; Pasture sh., 012 657; Union sh.,
019 655; Nelson's Lev. 019 668; Tomkin's sh, 014 661;
Grimes Groove M., 014 678; Riples L., 017 670; Stool Sh.,
014 677; Green Bycliffe M, 017 684; Palfrey sh., 016 680;
Porphyry M., 015 681; Charger L., 026 649; Longshaw L. 026 645;
Hebden trial L. 028 629; Beever's sh, 020 657;
Bolton Gill sh., 029 654; Cockbur Sh. 023 657; Loss Gill Lev,
025 658; Mitchell's sh., 025 656; Top Lev 029 654;
Brunt(s) sh, 029 667; Cupola sh, 025 6625;

GRASSINGTON, Yorks. (II)

Lee Sh., 028$_5$ 6700; Somers Sh, 029 6675; Taylor's Sh., 027$_5$ 669; Worsley Sh. 025 669; Chatsworth Sh. 025 672; Glory Sh. 027 672; High Ringleton Sh. 027 674; Jones Sh 028$_5$ 671; Lambert's Sh., 027$_5$ 6800; Legram's Sh. 023 678; Low Ringleton Sh., 028$_5$ 673; Murgatroyd's Sh., 025 678; Old Turf Pits M., 028 675; Richard's Sh., 0285 678; W. Turf Pits M., 027 677; Howgill Nick Sh., 023 682; Ougill Lev., 024 682; Cottingham Sh., 038$_5$ 669$_5$; Engine Sh., 030 667; Coalgrovehead Sh/ Level, 032$_5$ 6700; ~~Cottingham mine~~ Currey Sh., 037669$_5$; Low Pere M., 035 675. Moss M., 031 670; Moss New Sh., 035 6705; ~~Moss~~ (PTO)

Old Moss Sh., 035 670; New Moss Sh; 0325 672;
New Peru Sh., 035 675; Old Peru Sh., 036 678;
Sarah M/Sh., 036 673; Turf Pits M/Sh; 031 675;
W. Peru M/Sh., 032 675; Hulk Sh., 043 669.

SE? 029 666.

BRUNTS SHAFT, Grassington, Yorks

RSWS I, 96(6/6/60). ?Brunts shaft dumps, at 029 666 opposite Coalgrovebeck mill. Plenty platy baryte; good hemimorphite; clear colourless cubes fluorite

BYCLIFFE V., Grassington, Yorks.
See also GROOVE GILL.

A. Raistrick (1973) "Mid-Pennine" 89
Baryte, iron ores and "a little
manganese (pyrolusite, haus[e]mannite)".

SE 022 674

CASTAWAY - RIPLEY VEIN, Grassington, Yorks.

B. Young (1957) Trans. Leeds Geol. Assoc. 11 [2], 1-7
Aurichalcite reported by Raistrick (1973) "Lead mining in the Mid Pennines" D. Bradford Barton
Recent collecting shows it is common along the vein eg SE 022 674, on baryte, fluorite, calcite aragonite
Some hemimorphite, malachite traces.
Raistrick reported smithsonite e rarely, minium.

A. Raistrick (1973) "Mid-Penn's" 89 Aurichalcite e smithsonite. RIPLEY V: Minium, rare,

coating plates in baryte & in small inclusions in galena [? = cinnabar]

SE 025-8 671-3

CHATSWORTH MINE, GRASSINGTON, Yorks.
See also TAYLOR'S SHAFT.

Hartley — Rosasite.

RSWB, GR, TG 7/7/63. Vol III p116. Fluorite; rosasite on baryte.

AWGK MM (1968) 37 xlii See PGE "4th List" MM (1978) 42 169-177. calomel, grey crystals with minute globules native mercury & maldchite in cavities in oxidised ore.

SE 03 67

COALGROVEHEAD SHAFT, GRASSINGTON, Yorks

See MOSS MINE

SE 038 670

COTTINGHAM MINE, GRASSINGTON, Yorks.

RSWB, ~~OR, TG~~ 7/7/63 Vol III p 116. Gritty matrix.
Rosasite; aurichalcite; malachite;
baryte; fluorite; galena; hemimorphite;
cerussite, striated prisms.

SE 035 675

LOW PERU MINE, GRASSINGTON, Yorks.

GR, TG. 7/7/63 Vol III p116. Fluorite; galena.

SE 032 670

MOSS MINE, GRASSINGTON, Yorks

RSWB I, 96 (6/6/60). Rosasite; fluorite, colourless, some with zoned included chalcopyrite xls. baryte, hemimorphite, limonite, galena. – Coalgrove head Shaft dumps.

RSWB, GR, TG 7/7/63 Vol III p 115. Coalgrove head Shaft dumps: rosasite & aurichalcite on & in massive baryte; rarely clear prisms baryte in vughs; hemimorphite; galena; fluorite, colourless, yellowish, & purple-tinged, & some with included chalcopyrite.

AWGK MM (1968) 37 x|ii (Exhibit). See P&E "4th List"
MM (1978) 42 169-177 Cinnabar, minute xls,

SE 035 670

OLD MOSS MINE, GRASSINGTON, Yorks.

RSWB, GR, TG 7/7/63, Vol III p 115-6. Galena; fluorite; baryte; hemimorphite; rosasite; aurichalcite; azurite; jarosite [IR].

A. Raistrick (1973) "Mid-Pennns" 89 Dark purple fluorite "only @ one loc on MIDDLE V., near the Moss mine."

PALFREY (LEGRIMS) Sh?, Grassington, Yorks

A. Rainbird (1973) "Mid-Pennine" 89

Witherite.

RAKE V., Grassington, Yorks.

A. Raistrick (1973) "Mid-Pennines" 89

Hemimorphite abundant

RIPLEY V., Grassington, Yorks.

See CASTAWAY-RIPLEY V.

SE 036 673

SARAH MINE, GRASSINGTON, Yorks

GR, TG 7/7/63 Vol III p 116. Fluorite, barytie incl good clear prisms; galena; platy calcite lining vughs in soft grit; yellow powdery jarosite.

SE 02 66

TAYLOR'S SHAFT, CHATSWORTH MINE, GRASSINGTON, Yorks

RSWB, GR, TG. 7/7/63 Vol III p116. Rosasite.

SK 030$_5$ 675$_0$

TURF PITS MINE, Grassington, Yorks.
See also GRASSINGTON etc.

AWGK Min. Soc. Proc. (1964) No. 126. Jarosite.

AWGK Min. Soc. Proc. (1964) No. 127. Plumbojarosite.

AWGK Priv. Comm. (1967) Spencerite like iron-stained platy baryte; parahopeite looking like hemimorphite.

So all are (?)

RSWB, JRK, FF, 5/64. IV, 109: Limonitic gozzan; fluorite; galena; a little cerussite; some lumps of waxy white ? steatite or a clay much like the Grassington, Derbs halloysite.

AWGK MM (1968) 37 xlii (Exhibit). See P.G. Embrey "4th List" MM (1978) 42 169-177; BM specimen: Cinnabar, small crystals on grit. Metacinnabarite, small black tetrahedra, with cinnabar, on calcite.

B. Young (1987) Trans Leeds Geol. Assoc. 11 [2], 1-7: Dunham & Wilson (1985) (N. Penn 2) report rosasite. Recently one spec. aurichalcite.

SE 033 676

WEST PERU MINE, GRASSINGTON, Yorks.

GR, TG 7/7/63 Vol III p116. Fluorite.

SE 025 677

WEST TURF PITS MINE, Grassingtom, Yorks.
See also GRASSINGTON etc.

AWGK Proc. Min. Soc. (1964) No. 127. Argentojarosite.

RSWB, JRK[FF], 5/64. IV, 109 Jarosite; fluorite, galena. Jarosite checked by IR — microxline
Gut matrix

YARNBURY, Grassington, Yorks

Around ~~East~~ 017 659

RSoB I, 95 (6/6/60) On dumps near (opp) house called Yarnbury, (and at ~~YBY~~ 017 659) Clear colourless fluorite cubes; good cockscomb baryte; flakes galena; plenty hemimorphite, xline in cavities in massive, e assoc. with limonite

A. Raistrick (1973) "Mid-Pennines" 89. Hemim. abundant on RAKE V. e FRANKLAND FOLDS "ON YARNBURY".

GRASSINGTON YORKS

~~EATON~~

End of.

GREAT BLACK VEIN, Arkengarthdale, York

See ARKENGARTHDALE M's.

GREAT SPAR VEIN, Wharfedale, Yorks

See COLD STREAK M.

1" 95 SD 837 466

GREAT TODBER, Middop, Yorks

JR Earp et al "Geol of Clith & Nels" (1961)

Galena vein at 837 466 near Todber Nursery, 1½ ml S of Gisburn

1184 NY 810 264

GREEN [redacted] MINE, Lunedale, Yorks

KCD (1948), 312. Pb The Green Lead mines, 2¼ mls S of Cow Green mine — Opencast on Green Mines Vein in the Tynebottom L'stone, also shallow shafts. Baryte, with a little galena, in two veins & subsid. veinlets.

NB. Not far from Maizeback mine, known for oxidised copper minerals — could the name "Green" refer to Cu minerals here too?

1" 97 SE 45 56

GREEN HAMMERTON, Yorks.

See also The NIDD, Knaresborough., FOREST MOOR.

J. Farey, Phil Mag (1812) xxxix, 106. Gypsum & celestite, I believe, though Sowerby.... said to be from banks of Nidd near Knaresborough, 8 miles off.

SE 16

GREENHOW HILL Yorks

See also DUCK ST Q'y; COLDSTONES Q'y, etc.
PEAT PASTURE

AWOK Exhibit MM (1969) 37 xlii Calomel, cinnabar, mercury, metacinnabarite

GREENHOW QUARRY, Greenhow Hill, Bewerley, Yorks.

See DUCK STREET QUARRY.

1" 90 NZ 041 018 – 045 017

GRINTON DAM VEIN, Marrick, Yorks.

OS 6" map:

1" 90 SE 033 960 – 048 965

GRINTON HOW MINES, Grinton, Yorks.

See also GRINTON MOOR MINES, etc.

RSWB (5/70) V, 169-170. Dumps e open vein around SE 043 963, below road: grit, some limestone, much chert, fossils. Much hemimorphite, drusy radiating, in limonite gozzan. galena; calcite, massive → nail-head; baryte not common, incl. xls; one spec. fibro-columnar aragonite.

Dumps above road, around SE 037 963 galena in hemimorphite, one spec. with

white hydrozincite (blue fluoresc in LW-SW); baryte, calcite, chert.

OS maps GR. HOW PbM's 025 955 – 048 965 LOW GREETS Sh., 025 955; HIGH GREETS Sh., 029 956; HOW RAKES, 031 958 – 042 963; HOW HUSH 038 962 – 042 963; RIDLEY HUSH 039 964 – 043 963. HOW LEV. 043 963; CART WHEEL HUSH 038 957 – 042 960; SWINSTON HUSH, 045 965 – 048 965; CALIFORNIA LEVEL nr 044 965

LOT et al (1995) The Grinton Mines, 59, 62-3. Plan 64-5.

1" 90 SE 04 96

GRINTON MOOR MINES, Grinton, Richmond, Yorks.

See also GRINTON HOW MINES, BROWNGILL, DEVIS HOLE, GUY, GROVEBECK, HARKERSIDE, WHITASIDE, SUMMER LODGE Mls.

TMH (1868), 71. (Pb) Cerussite; galena.

OS 1" map shows "Grinton Moor" at SE 0496, "Grinton Smelting Chimney" at 052964 & "Grinton How Head Mines" at 04 x 963. in Grinton pH.

"The Grinton Mines" (1995)* History, indust arch, mine plans, etc. (132 pp) LO Tyson and IM Spensley with RF White. Brit Mining No 57.

GRISEDALES, Malham, Yorks

See PIKEDAW HILL

SD 77 93

GRISDALE COMMON, Garsdale, Yorks.

Geol. of Malleton, (1891), 167. [Coll. in "N. Riding"]. Quartz veins, frequently with well-developed x/s, sometimes amethystine, cross bare plateau of Mountain Limest by High Ing [779 935] and East House [776 935] (Grisdale Beck), & make conspic. ridges, often sev'l yards wide, & contain small prop'n. of copper pyrite, partly converted to blue & green carbonates. E of High Ing is an old trial shaft in the most conspic. vein. Cu trials also near Hell Gill [ca 7896] and under Wild Boar Fell [7598] [2½" OS shows "Old shaft" at 759992]

P10.

RSW B, TBG. III, 93 (1/6/63) Bipyramidal quartz
xls, (no amethyst seen). Traces malachite specks.

1"90 SE 048 674

GROOVE GILL V., Hebden, Yorks

See also TAG BALE

McGill (1994) "...Wharfedale..." 97-8; map p98

E extension of BYCLIFFE V. [Grassington Moor]

Opencuts, shallow shafts. Working 1750, prob. earlier

DICKINSON (=OLD PROSPEROUS) LEVEL from 056 671 in gate up gill. A x-cut driven N to test GAME ING FLAT

Galena in calcite & baryte, poor. Also coal.

1" 90 SE 024 963

GROVEBECK Pb MINE, grinton, Yorks

See also GRINTON MOOR M's etc.

OS map shows also KAY HUSH (NE-SW) 025 964 - 028 966; GROVE BECK Pb LEVEL, 027$_5$ 967$_5$

LOT et al (1995) The grinton Mines, 66-8; Plans p. 67, 69

GUNNERSIDE GILL, Yorks

See OLD GANG M/s

1" 90 Cent. on SE ~~NE~~ 007 969s

GUY Pb MINE, Grinton, Yorks.

See also GRINTON MOOR Mls etc.

LOT et al (1995) The Grinton Mines, p 71.

1" 90 SE 01 97

HARKERSIDE } MINES MOOR, Grinton, Yorks

See also GRINTON MOOR M's etc.

OS map: "Old lead mines" centred on 016 973

LOT et al (1995) The Grinton Mines, 70.

1"90 Cent on SE 0655 9635

HAGS GILL Pb LEVELS, Ellerton Abbey, Yorks

BMS Newsl. (1997) 47, 3. BMS Coll No 1878. Baryte,
HAGGS GILL LEVEL. Pres. D. Green.

SE 0 2

HALIFAX, Yorks.

TMH(1868), 71 Mill gr. Coal-m. Pyrite

HARD LEVEL, Reeth, Yorks.

See OLD GANG MINES

1" 90 SE 0345 9405

HARKERS Pb LEVEL, Redmire, Yorks

HARRIET LEVEL, Melbecks, Yorks

See LOWNATHWAITE M's.

1"90 SD 933 682

HAWKSWICK CLOWDER, Hawkswick, Yorks

McGill (1994) "... Wharfedale ..." 80-81. Tight band of SW-NE veins, worked before 1740s: SNOTTY BESS RAKE, SPRING, HARRISON, KITCHING RAKES, HARD VEIN - all 933 682. [Pb presumed] Map, p. 76.

1"90 SE 02-03 65

HEBDEN MINES, Hebden, Yorks

See also GRASSINGTON etc., GROOVE GILL, TAG BALE

MC gill (1994) "...Wharfedale..." 99-120. Maps pp.100, 103
Section p 102, photos pp 105, 106, 107, 108
COCKBUR CHASE V., 030 654. SE across Hebden Beck, up Loss Gill Bank & into Bolton gill.
PENSION RAKE M., loc unk prob in Bolton Gill.
PROVIDENCE V., 029 654; CHANCE V., 030 654;
THOMAS's V., 031 654; STAR V., 035 652; SHAW'S V., 038 653; BEEVER V., 023 650. TOP LEV. 029 654
BOTTLE LEV. (Section p 102) (Photo p 108)
CHARGER LEV., (c 1863) to Beaver V. in grit.
LONGSHAW LEV. (Cost reims in 1866) from foot of "The Hush"

NEW LEV. (1870's) @ 600 FEET from the village
[028 630] BOLTON GILL Sh. & dressing floor
Lead ore, pyrite. Coal mines also

SD 78 96

HELL GILL, High Abbotside, Yorks

2½" OS map SD 79. On Yorks/Westmoreland border

Geol. of Mallerton (1891) 164 (Coll. in "N. Riding"). Copper trials near Hell gill

Hellgill is at 785967

Hellgill Force 778 965

Hell Gill Beck from H.G Force to HG, then NE for ~ 2ml.

HERRING RAKE LEVEL, Reeth, Yorks

See OLD GANG MINES

SD Ca. 762 473

HERRISS, Grindleton, Yorks

See also ST HUBERT MINE, etc.

GS 6" map shows crossing veins near 762 473, behind (and below) Herriss

JR Earp et al "Geol of Clitheroe Nelson" (1961) 2 Veins in brook at 763 473

1" 90 SD 878 748

HESLEDEN (= HESLETINE) BANK, Halton gill, Yorks

See also POTTS BECK, WEST CLOSE

McGill (1994) "The Wharfedale Mines", 72. Lead trial in 1747.

1" 95 SD 96 58

HETTON, Yorks

See also BROCKABANK

McGill (1994) "...Wharfedale..." 89. 003 tons Pb raised from unplaced site in Hetton liberty in 1773.

HILL TOP SHAFT, Castle Bolton, Yorks

See VIRGIN MINE

HILSTON, Holderness, Humberside, Yorks

See under TUNSTALL

1" 90 Cont. on NZ 04o 02o

HIND RAKE, Marrick, Yorks

See also ARKENGARTHDALE M's; RACCA V; ROAN H., CAT SH., HURST V., WELLINGTON BARF END M., QUEENS L.

OS 6" map. ENE-WSW vein. W end forks - NW branch = ~~RACCA V.~~ RACCA V., WSW branch = HIND RAKE V.

1" 90 NZ 07 04

HOLGATE PASTURE, New Forest, Yorks

See also WAITGATE GILL, THRINGILL HILL, DICKY EDGE.

OS 6" map. Many Old Shafts & Old Mines (Pb)
"Old Shs" & "Shake Holes" cent. on 077046
"Old Shs" cent. on 075041
"Old Mines (Pb)" cent. on 079 039

1" 84 NY 898 271 → 912 263

HOLWICK SCARS, Holwick, Yorks.

KCD(1948) 313. Whin sill scarp, cut by "remarkable ENE gullies". Some may be veins, with barytes (which occurs in two of the gullies – Hind Gate & Water Gate)

Zeo?

SE 74 25

HOWDEN (S. Humberside) Yorks

ME Smith (1994) J Russ Soc. 5 119-120

Vivianite in a pit in alluvial clay along river banks at SE 740 258; on wood fragments as cobalt-blue encrustations. Also in/on the wood are pyrite & gypsum.

SE 86 57

HUGGATE WOLD, Pocklington, Yorks

ME Smith (1994) J. Russell Soc., 5, 119-120

Vivianite from a 19th Cent excav of a barrow on HUGGATE WOLD, in the Yorkshire Museum (YORYM 1994, 1781 e-1782) Pale blue, in a chalky clay

1"90 SD 821 745

HULL POT, Horton-in-Ribblesdale, Yorks

Geol of Ingleborough (1890) pp 85-86. Mineral veins, eg W of Pennegent [?Pen-y-Ghent] - Hull Pot - traces of lead, zinc & copper ores, with baryte & calcite.

HUNGRY HUSHES, Arkengarthdale, York

See ARKENGARTHDALE M's

HUNTER's V., Lune Forest, Yorks

See LUNEHEAD M's.

HURRGILL SHAFT, Arkengarthdale, Yorks.

See ARKENGARTHDALE M's.

1"90 ~NZ 0402

HURST MINES, Marrick, Yorks.

R. Lamb (5/85) well known lead mines, over considerable area.

1" 90 Cent. on NZ 04, 02,

HURST VEIN, Masrick Yorks

See also ARKENGARTHDALE Ms., HIND RAKE etc

OS 6" map. ENE-WSW vein either = or ll^e to,

HIND RAKE

HUSH GILL, Muker, Yorks

See LOVER GILL V.

HUSH GUTTER, gt Sled Dale, Muker, Yorks

See (gt.) SLED DALE

Muker 1"90 SD 8295991₀

SLEDDALE VEIN Nr. Keld in Swaledale, Yorks.

1" (90) ~~SD 8329943?~~ See above

SRMRGB XXX "Cu..." (1925), p.30: Sleddale copper vein, above Keld in Swaledale: "Blue copper ore"

OS 6" map shows "Old Copper Mine" at above loc., in Gt. Sled. Dal

SD 75 71

INGLEBOROUGH CAVE, Ingleborough, Yorks.

H. Gledhill, Priv. Comm. (1962) Cinnabar !!! "thumbnail-sized" lumps in dark limestone matrix. In loose lumps - matrix not same as cavern walls & none found in situ. Carefully analysed & Hg confirmed. Also May have been dropped there, but several pieces found.

SE 11 64

JACKASS LEVEL, Beverley, Yorks.

See also COCKHILL & SUNNYSIDE MINES

1"90 Contr. on SE 063 963

JAMES RAW'S RAKE, Ellerton Abbey, Yorks

OS map. NW-SE

SE 1 6

JAMIE VEIN, Greenhow Yorks

KCD(1974), quotes Dunham & Stubblefield (1945), p.250. "The stratig'y structure & mineralisn of the Greenhow mining area, Yorkshire" Q J Geol Soc Lond, 100 209-68:- Gold, in assays.

1" 90 NZ 040 008 – 050 013

JINGLE POT MINE, Marrick, Yorks.

OS 6" map: Lead mine, ENE-WSW. "Jingle Pot Lead Levels" on scarp of Fremington Edge, centred on 041 009, in Reeth pH.

1"90 SE 008 950

JUNIPER Pb LEVEL, Castle Bolton, Yorks

JUSTICE VEIN, LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

1"90 SE 016 614

KAIL HILL, Thorpe, Yorks

See also ELBOLTON HILL

McGill (1994) "...Wharfedale..." 93. 6 short veins - shallow pits & opencast, very poor for lead, some in shale.

KAY HUSH, Grinton, Yorks

See GROVEBECK Pb MINE

[cf KAY HUSHES, Barras End NY 9801]
See BARRAS END

1" 90 SE 080s 9070

KELD HEADS MINE, Wensley, Yorks.
See also CLAYTON, COBSCAR, CRANEHOW BOTTOM.

KCD "F" (1952), 69: Keld Heads Level mouth just N of Wensley Rly. Stn. @ ca 600'OD. Extensive dumps as vein worked N for at least a mile. A single fault trends NNW, ending to S against an almost E-W fault in Wensley Park. Colourless fluorite in the S parts but as vein goes N it fades out, the gangue being baryte with some

calcite & hemimorphite. To the N, vein links up with Clayton & Cobscar Rakes.

OS 2½" map shows "Lead Mines" (disused)" at above map ref. Also "Old shafts" to S in park at 0815 8990 & near 077 913 (in Preston-under-Scar parish)

1" 90 NY 874 014

KELDSIDE MINE, Muker, Yorks

See also RUMBLE POOL LEVEL

OS 6" map - Lead mine, on N bank of R. Swal
opposite Rumble Pool Level

1" 90 NY 874 014

KELDSIDE MINE, Muker, Yorks

See also RUMBLE POOL LEVEL

OS 6" map - Lead mine, on N bank of R. Swal
opposite Rumble Pool Level

KETTLEWELL M's, Kettlewell, Yorks (II)

M. Wolfe et al (2008) UKJMM 4-22. Pp 12-13
vg yellow & white smithsonite, stalactitic
from MOOR END & MIDDLESMOOR Ms also
BUCKDEN GAVEL M. [qv]. Good ~~FIGURES~~ photos

1" 90 SD 96-99 70-74

KETTLEWELL MINES, Kettlewell, Yorks (I)

A. Raistrick (1973) "Lead Mining in the Mid-Pennines" pp 130-4 Map, p 132 showing DOWBER GILL M., RAIN SLACK M., OLD PROVIDENCE M.

MC Gill (1994) "The Wharfedale Mines" 41-58. Histo
indust. archaeol.
KETTLEWELL SMELT MILL, SD 975 728 pp44-7, photo p 4
PROVIDENCE M. pp 47-51 Map p 49 "OLD PROV. MINE".
OLD PROV. V; SD 990 726; SMITH'S V., 984 728; NORTH V. 985 7
EXHIBITION V, 985726; MIDDLE V., 985 725; AUSTRALIA V., 985 72
PERSEVERANCE V., 986725; RUNNING = RAIN SLACK V., 987 722;

SUMMER HAW N & S V's, 990 706. Lead ore, baryte
fluorite, calcite. [coal from x-cut]

SILVER RAKE & VICTORIA M's. pp51-2.

SILVER RAKE = HOOKSBANK V., 986 733; GILL SIDE V., 9817
CASEKER GILL V., 986 743

CAM HILLS M's. pp 52-54.

CAM SCAR V., 968 733; STONEY RAKE, 968 740; HAWK'S NEST V.,
967 738. CAM SCAR LEV 9653 7335; GENTLEWOMAN LEV
965 735

MIDDLES MOOR & MOOR END, p 55-57. Map p. 56.(8

MOOR END FELL V's). DIMMERDALE CROSS V., 960 715;
~~OVERTIME~~MOOR END: SUNTER'S SUN V., "995 726" [?=955 726];
WISEMAN'S V., "995 727" [?=955 727]; HAGG V., "995727"
[?=955 727]

COAL MINES also in area

1" 90 Around SD 96 66
95 66

KILNSEY MOOR, Conistone with Kilnsey, Yorks.

See also PROCTOR HIGH MARK, WHITWAY VEIN

A. Raistrick, The Naturalist (1938) 975, 119. Small fissure veins behind Chapel House [976 666], and between Kilnsey Moor and Bordley Gate [ ]. Main working is shaft on hilltop above Kilnsey Wood, with dumps [ie ca 96s 66]. Scattered galena in calcite + occasional cream massive baryte; occas. traces malachite in the baryte.

Smelt mill was at Kilnsey, dressing floor at head of Howgill Beck [95 67] [illegible]

McGill (1994) "...Wharfedale..." p 82-3. Two groups of veins on high land at each side of Mastiles Lane. Not very productive. Working 1850s c 1860's. Small dressing-floor at head of Howgill, at SD 950 680 Kilnsey Smelt mill at 973 677, workin by 1729

1" 90

SD 956 993

KINING LEVEL, Melbecks, Yorks

Pb mine (OS map)

1" 85 NZ 21 06

KNEETON, nr. Richmond, Yorks.

See also MIDDLETON TYAS etc

A. Raistrick (1975) "The lead industries..." 97.

Trial for Cu in Magnesian Limestone produced ore but not viable.
cf. Middleton Tyas.

KNOTS HUSHES, Melbecks, Yorks

See OLD GANG MINES

KNUCKLEBONE PASTURE M.,
Starbotton, Yorks.

See STARBOTTON M'S.

LANDY LEVEL, Muker, Yorks

See BELDI HILL MINES

1" 90 NY 855 008

LANE END MINES, Muker, Yorks.

OS 6" map – "Lane End Lead Mines" at 855 008

B. Young (1987) Trans Leeds Geol. Ass. 11 [3] 1–8.

Lane End mine, Keld, NY 856001 worked part of Keldside vein system for lead ore in baryte, witherite, calcite, minor barytocalcite, small amts of sphalerite, pyrite & cupy (Dunham & Wilson (1985) [N. Penn, 2]. One spec.

strontianite coll. as sprays of white steep pyram. xls to 3mm in vug in witherite + barytocalcite — between 2 generations of witherite.

1" 90 SD 994 610

LANGERTON HILL MINES, Burnsall, York

See also CARDEN HILL, SKELTERTON HILL, STEBDEN HILL

OS 6" map shows "Langerton Hill Lead Mines" at above map ref.

MCgill (1994) "... Wharfedale ..." 94. 3 short veins N 60°W. galena in calcite - dolomide. 0.5 ton Pb raised in 1871. At 994 611

LAYTON nr Richmond, Yorks

See LEYTON

SD 923 288

LEAD MINE CLOUGH, Blackshaw, Yorks

See also CATHOLES CLOUGH,
of LEAD MINES CLOUGH, Littleborough, Lancs.

OS 2½ in map shows "Lead mine" at 923 288, at Lead Mine Clough

GS 6 in map shows "Pebbly grit; baryte in joint planes" around this loc.

SE 3 3

LEEDS Yorks.

See also THORNER; MIDDLETON COLLIERIES

TMH (1868), 71: Coal-measures: "Leedsite" (Hey - a mixture of baryte & anhydrite)

LEE GATE HIGH MARK, Bordley, Yorks

See PROCTOR HIGH MARK

1" 85 NZ 11

LEYTON, nr. Richmond, Yorks.

See also MIDDLETON TYAS etc.

W. Leyton NZ 1410 E. Leyton NZ 1610

A. Raistrick (1975) "The Pb industry..." 97

Ac trial in Magnesian limestone.
Some ore. "LEYTON"

1" 90 NY 868 014

LITTLE MOOR FOOT MINE, Muker, Yorks

OS 6" map: "Little Moor Foot Lead Mine", at NY 868 014

1" 91 SE 107 725

LOLLY MINE, nr. Lofthouse, Stonebeck Down, Yorks

SRMR&B II Ba (1916). On S bank of Nidd between Ramsgill & Lofthouse. Witherite in radiating masses.

Dunham, F (1952), 74: Near Lolly Scar 1¼ mi NNW of Ramsgill on W bank of Nidd. — amber fluorite, assoc. with witherite. Series of E-W veins in grassington Grit.

RSWB, TBG, AWGK, 9/63, II 16-17: At SE 107 725. Dump & open level at foot of hillock across meadow from river. Grit matrix, with specks of azurite & malachite; baryte; fluorite,

(some with included chalcopyrite), colourless
e amber. calcite; galena; witherite
plentiful, waxy radiating masses;
barytocalcite, with good xls in cavities
(TBG)

KCD (1974) Witherite

1" 84 NZ 07 06

LONG GREEN, Newsham, Yorks

See also NEWSHAM MOOR, WAITGATE GILL

OS 6" map: "Old Shafts (Pb)" at 071065, also near 075 060-1 (at Washbeck Folds)

1" 90 SD 88 96

LOVER GILL VEIN, Muker, Yorks

See also STAG FELL GROVE; PROVIDENCE M. (Muker).

KCD "F" (1952) 68 Small quantities amber fluorite at LOVER GILL OPENCAST and on LOVER GILL VEIN at Thwaite Beck [88 98]. No fluorite on this vein in the Main L'st at HUSH GILL S of Buttertubs Summit, but occurs further S at Stag Fell Grove.

OS 6" map shows "Lower Gill Hush" at SD 883 967-9 NNE of Lover Gill.

1" 90 SD 93 70

LOW COTE MOOR, Arncliffe, Yorks

See also PROCTOR HIGH MARK; DEW BOTTOMS

A. Raistrick, The Naturalist (1938) 975, 119. Old levels & dumps on Low Cote Moor, on E-W lead vein, with some chalcopyrite

1" 90 Around NY 933 013

LOWNATHWAITE MINES, Melbecks, Yorks

See also OLD GANG MINES; SWINNER GILL M's;

OS 6" map shows "Lownathwaite Lead mines" around above map ref., W of Gunnerside Beck/gill. SUN HUSH (ENE-WSW), 933 013$_0$-938013$_5$, NORTH HUSH (E-W) 933 013$_5$-938013$_5$; BLIND GILL LEVEL, 935018; DOLLY LEVEL, 937$_5$008; HARRIET LEVEL 93$_5$004; SILVER HILL LEVEL, 937?013?; SIR FRANCIS LEVEL, 940000; PRISCILLA LEVEL, 938014; WOODWARD LEVEL, 938013; SUN SH., 933$_0$011$_5$

1"84 NY 846 205 - 855 205

LUNEHEAD MINES, Lune Forest ~~Durham~~ Yorks. (I)

? "Bait Casting" Are at 846 205, nr Brough

KCD (1948) 316, 26, 94, 97, 111 (Ba, Pb)

p94: A spec. of pale blue-green aragonite from Lunehead mine, invest by J. Newton Friend & J P Allchin (unpub. paper read to Min Soc, March 194 had 4.7% $SrCO_3$; 231 ppm Cu, Fe, 64 ppm. No Au,

p97. Very little galena p111. A series of post-mineralisation caverns have cut through the baryte veins.

p316 Worked a number of veins; a situated on the S side of the main

road. Is an old lead mine, but mainly a baryte producer. Small quantities of galena & aragonite, & rarely, a little witherite (in Cavern vein, near the forehead, 1900' SW of the adit x-cut)

B. Young et al (1985) Trans Nat Hist Soc N'umbria 54, 31. Aurichalcite, sparingly on sec'y baryte derived ex witherite & barytocalcite, at NY 8556 204 in Foster's Hush on Hunter's Vein. Hemimorphite aggs → 3mm also on sec'y. baryte.

LUNEHEAD MINES, Lunedale, Yorks (II)

KCD N-F (1959), 139. Not worked post-war. Probably capable of development.

KCD NPI (1948) 316. Galena; baryte; aragonite, with, rarely, a little witherite.

RSWB, TBG III, 93-94 (1/6/63). Baryte xls, some clear. galena; a little hemimorphite

RSWB 26/4/76 Told by manager of Closehouse mine; - entered by level which dips to

chest-level water, then rises again. Large cavernous flats.

Collectors have recently brought out characteristic xl groups of baryte — clear tabular x/s in radiating clusters of near-parallel x/s.

B. Young (1985) PYGS 45 199-206. At FOSTER'S HUSH, NY 854204, major witherite, major barytocalcite. At LUNEHEAD MINE, NY 846 205, major witherite, minor barytocalcite

LUNEHEAD MINES, Lune Forest, Yorks (III)

R. Soc. Newsl. (1984), 25

After taking our leave of Closehouse, those with a liking for obscure minerals in foul weather made a brief stop by the roadside at Fosters Hush to examine the barytocalcite and witherite-rich debris from the old opencast workings on Hunter's Vein. Despite the by now biting hail, one or two splendid examples of beautifully crystallised barytocalcite were unearthed.

T. Bridge & B Young (1998) J. Russ. S.

Aurichalcite (FOSTER'S HUSH, 8556 2040) (Young et al 1985a),

Carb-cyanotrichite (XRD; BM)

sky-blue spher → 0.5 mm w. malach. on Ba from 8460 2051

Hemim (FOSTS HUSH)

Fosters Hush, Lunedale, ~~Durham~~ Yorks BSN (1994) 24

Although not in the programme, a brief visit was made to the reclaimed tip area of Fosters Hush, adjacent to the Brough to Middleton-in-Teesdale road. Brian Young ably explained the geology and mineralogy of this site, barium carbonate minerals being unusually abundant. Unfortunately, it was not recognised as a significant producer of barytocalcite and witherite until the tips had been levelled and flattened.

A little unlevelling by the assembled group quickly brought to light barytocalcite and witherite frequently associated with secondary baryte. Jonathon O'Dell levered out a large boulder containing some fine barytocalcite crystals to 5mm and associated witherite and secondary baryte.

Almost as many specimens were found in the half hour at this site as at Closehouse in half a day!

Lionel Burch

1"84 NY 799 268

MAIZEBECK MINE, Lunedale, Yorks.

KCD (1948), 312. 3/4 mi SWQ Birkdale Farm, a level driven 1200' SE from Maize Beck following a NNW vein in the Smiddy Limestone. Vein split 350' from portal. On dumps, barytes assoc. with sugary silica vein stuff with galena and "oxidised copper minerals"

1" 95 SD 701 459

MARLS CLOUGH BECK, Bowland Forest Low, Yo

JR Earp et al "Geol of Clith. & Nelson" (1961)

2-ft baryte vein in Marls Clough Beck
at 701 459

1"90 NZ 062 985

MARRICK CUPOLA, Marrick, Yorks.

See also MARRICK SMELTING MILLS

A. Raistrick (1975) "The Lead Industry of Wensleydale and Swaledale, Vol I. The Mines" p 79.

RPJ Lamb, spec's → RSNOB (1991)

① Sprays of clear needles. NaN_3/I_2 test inconclusive. — some bubbles?

1"90 NZ 079 995

MARRICK SMELTING MILLS, Marrick, Yorks (I

See also MARRICK CUPOLA

A. Raistrick (1975) "The Lead Industry of Wensleydale & Swaledale, Vol I. The Mines" Moorland Pub. Co. p 14, 71, 78-9, 67 Lowe High Mills.

RPJ Lamb specs to RSWB (1991). On slags from MARRICK LOW MILL dumps:

① Colourless long prismatic striated x/s: Efferv. with NaN_3/I_2. FTIR (10/7/91) = $BaS_2O_3.H_2O$ orth. Pbcm

② Colourless pyramidal, v. clear, twinned

MARTIN VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

SD ~ 697735

MEAL BANK QUARRY, Ingleton, Yorks

AWOK, Priv Comm (1963). A spec. recently received by AWOK identified as jarosite, yellow powder - "abundant"

BM spec; Halotrichite, pale yellowish-whi
fibrous mass

MELBECKS MOOR, Yorks

See OLD GANG MINES

1" 85 NZ 19 08

MELSONBY nr. Richmond, Yorks

See also MIDDLETON TYAS etc.

A. Raistrick (1975) "The Pb industry..." 97

Au trial in Magnesian Limestone.
Some ore.

1"90 SD 930 682

MERRYBOTTON VEINS, Arncliffe, Yorks.
See also DARSEY RAKE, ARNCLIFFE CLOWDER.

McGill (1994) "...Wharfedale..." 78; map p. 76
Lead trial; 3 veins at Linesseed Head.

1" 91

SE 11 8 ~~669~~ 664

MERRYFIELD MINE, ~~Beverley~~ Stongbeck Down, Yorks. (I)

Dunham (1952) F, p 74. On Bycliffe Vein. Worked for lead ore. Has Zn, $BaSO_4$, CaF_2 & Pb, in analyses

Edin. Phil. J. (1825) xii, 178. Strontianite at Pb mine of Merryfield, nr. Pateley Bdge. in veins and nests asso with lead & baryte. Two vars: one compact semi-transparent & "most splendent white" like "arragonite other beautifully xlised in prisms of greyish-white colour. [Quoted in "Guide to Harrogate" 2nd Ed (1905), 38 — strontianite stated to have been found at Merryfield nr. Pat. Bdge, — stated by RH Davis (Chem. News. xiii, 303) to be the double CO_3 of Ba & Sr. Davis: The

double CO_3 of Ba & Sr assoc. with ore in lead mines at Pately Bdge... [NB footnote !!!!]

Melmore N Wern Naturalist (1943) 156-7 Strontianite, Merryfield Mine. "Found by Murray, 1824"

RSWB, TBG, GR/S, III, 114 (6/7/63) Dumps around 109 664 extensive, weathered. Baryte, massive & cockscomb; some fluorite; calcite; including clear nail-head; a little blende & galena. One tiny piece Cu stained matrix. Cu-stained slag present. Adit by stream, open, large, near 113 661 going in W of N, arch inscribed "TW" & "1854". Red water emerging. ?enterable in Wellington

MERRYFIELD MINE, Stonebeck Down, Yorks (II)

B. Young (1987) Trans Leeds Geol Assoc. 11 [3] 1-8

Strontianite — orig. in a letter of 1824 by P. Murray to Yorks Phil. Soc. in coll. pub. by S. Melmore in North Western Naturalist (1948) 15, 14 with chem. anal., ass w. baryte & galena.

The S. is pure white fib. rad. to > 15 cm or steep pyr xls in sprays into vugs. Ass w sphalerite, fluorite (amber to purple)

1" 84 NY 825 272

MERRYGILL BECK, Lunedale, Yorks.

KCD (1948) 312. Hush into beck ½ mi S of The Tees, exposes a belt of 4 NW faul with a little <u>baryte.</u> Also a low with baryte

MIDDLESMOOR M., Kettlewell, Yorks

See KETTLEWELL M'S.

SE 30 27

MIDDLETON COLLIERIES, Leeds, Yorks.

TMH (1868), 71. Coal-measures. Middletonite.

G+L (1858): middletonite occurs in thin seams & globules between layers of coal in the Haigh Moor seam.

1" 85 NZ 22 05

MIDDLETON TYAS, Richmond, Yorks.

See also KNEETON, LEYTON, MELSONBY

TMH (1868), 71 In Mill qr. Galena; chalcopyrite; chalcocite.

G+L (1858): chalcocite said to occur.

A. Raistrick (1975) "The lead industry of Wensleydale & Swaledale. Vol 1. The Mines" 97.

4m NE of Richmond, in Magnesian Limestone. In opening a 1st q'y ~1750 Calcite veins w. irreg patches malachite & other Cu ores noticed. Small mine opened at Goose Hill, just SW of the church, & later, 2 larger mines. Ore in

irreg. lumps & patches, workings like "fox earth" with galleries in all directions. Prospected ~ 25 years.

Wadge et al
"Copper mineralisn nr Midd. Tyas, N. Yorkshire" Inst of Geos London (1982) or (1981) 54

R P Lamb, Priv Comm (1988) Interesting decorative slags ~~seen~~ in local walls, some ~~very~~ bright red & glassy

MOOR END M., Kettlewell, Yorks.

See KETTLEWELL M's. & STARBOTTON M's

1" 90 SD 9970 — SE 00 70

MOORHEAD MINES, Coniston, Yorks.

See also MOSSDALE M., OUT MOOR M.

A. Raistrick (1973) "Lead Mining in the Mid-Pennines" 127-

~~ROYAL EXCHANGE, N. MOSSDALE, N. MOSSDALE MINES.~~

MC Gill (1994) "The Wharfedale Mines", pp 59-63. Maps 62, COCKLAKE V., 995 706; S. COCKLAKE V., 998 704; BELL and DRAGON V., 999 704; PARK'S V., 998 703; MOORHEAD V., SE 001 704; CORRIGAN STRING, SE 002 703; ODD MEER V., SE 003 703; PECK O'MALT V., SE 003 702

Lead ore. History, industr. archaeol.

1" 90 NZ 053 039

MORESDALE RIDGE LEVEL, Marrick, York

OS 6" map.

1" 90 SE 021-3 701-3

MOSSDALE MINES, Coniston, Yorks (I)

See also MOORHEAD M., OUT MOOR M.

A. Raistrick (1973) "Lead Mining in the Mid-Pennines", p 12
ROYAL EXCHANGE V., N. MOSSDALE V., N. MOSSDALE N. V.

M. C. Gill (1994) "The Wharfedale Mines" pp 59; Maps p. 62, Mine plan, p. 68. History, indust. archaeol. Lead ore. 6 named veins.

1" 90 SE 021₅ 701

MOSSDALE MINE, Conistone Moor, Yorks (II)

OS 6" map shows "Mossdale Lead Mine" at SE 021₅ 701

KCD "F" (1952), 70 The Mossdale Mines worked a group of EW veins in the Grassington grit. A little fluorite on dumps

MOULDS LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

MOULDS TOP MINE, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

1" 90 NZ 0700 - 0800

MUSGROVE (CLEABURN) PASTURE, Marske, Yorks

OS 6" map: Many old shafts and old mines shown, including old lead mines eg at Cock How.

NEW MOULDS LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE MSS

1" 84 NZ 06 07

NEWSHAM MOOR, Newsham, Yorks

OS 6" map: "Old mine (Pb)" at 0615 0715.

NE extension of Waitgate Gill – Long Green mines? [qv]

NZ 5613

NEWTON, Guisborough, Yorks.

TMH (1868), 71: Lias. Haematite, jet.

NEWTON KYME, Yorks.

Geol. of Harrogate (2nd Ed) (1908), 38. Green copper carbonate at Newton Kyme nr. Tadcaster (W. Marshall, Trans Geol Soc. Ser 2 vol ii, 140).

(1826)

W. Marshall, Trans. Geol. Soc. Ser 2 vol ii, 140-1. Green copper carbonate in quarry of Magnesian limestone ca. ½ mile S of Newton Kyme, in thin veins.

Dr Murray, Trans Geol Soc (1817) iv, 445. Sulphate of strontian [Celestite] in limestone on banks of the Nidd near Knaresborough [That's all!]. Extract of letter to Mr Sowerby. – from the minute book of the Geol Soc [Dated Nov 1, 181

J. Farey, ~~Trans~~ Phil Mag (1812) xxxix, 106. Gypsum & celestite at Green-Hammerton, I believe, though Sowerby.... said to be from banks of Nidd near Knaresborough, 8 miles off.

Gel. (1868) 69. Celestite, Yorks: White & opaque at Scolton Moor [Scolton, 326593, opposite Bilton Bank 3158-3458], & in the Nidd near Knaresborough, in the Magnesian Limestone

Edinb. Phil. Journ (1825), xii, 178: 3 vars of celestite on banks of Nidd nr Knaresb... Foliated, finely x-lised, delicate blue, "well meriting name of celestine", in Magnesian Limestone, resting upon NRS. Compact, snowy white;

(Banks of). 1" 96, 91 SE ~~2424 5267~~ (5
25, 35

The NIDD, Knaresborough, Yorks. (I)

See also FOREST MOOR, nr Knaresborough. BILTON; SCOTTON MOOR; GREEN HAMMERTON

TMH (1868), 71: Celestite in Mill gr.

Geol of N & E of Harrogate (1873) 10. Permn Lr. Lim has small cav's filled with calcareous spar. Exposed in quarries; on banks of Nidd near Knaresb.; in railway cutting at Wormald Green & banks of the Skell in Studley Park. [Celestite not mentioned]

1"91 30 65 ←

→ 1"91 28 69

[3157; Bilton Bank on river, 3158-3458]

Geol of Harrogate 2nd Ed (1905), 38: Celestite on banks of the Nidd at Bilton (J. Sowerby Brit Mm (1817) vol v, p75, tab. 444; Dr Murray, Trans Geol Soc. (1817), iv, 445; Ann Rep. Yks Phil Soc (1887), 106) and also at Green Hammerton (J. Farey, Phil Mag. (1812) xxxix, 106).

→ 1"97 4556

NIDD, The Banks of the, Knaresborough, Yorks. (II)

Radiated yellowish white, at Bilton on opposite bank of river, in NRS, with several varieties of gypsum.

NORTH GUTTER LEVEL, Reeth ~~ARKENGARTHDALE~~, Yor

See ARKENGARTHDALE M[1]s.

1" 90 NZ 049 022 – 054 02

NORTH HUSH, Marrick, Yorks

See also QUEENS LEVEL, HIND RAKE, SUN HUSH.

OS 6" map. ENE–WSW.

NORTH HUSH, Melbecks, Yorks

See LOWNATHWAITE M's

NORTH RAKE HUSH, Arkengarthdale, Yorks.

See ARKENGARTHDALE M's

NORTH RAKE, Reeth, & N.R. HUSH, Melbecks, Yorks

See OLD GANG MINES

OLDFIELD GUTTER, Muker, Yorks

See BELDI HILL MINES

1" 90 NY 94-97, 00-03

OLD GANG MINES, Melbecks, Yorks (I)

See also LOWNATHWAITE M's., SURRENDER M., BLAKETHWAITE LEVELS, BARRAS END.

OS 6" map, etc. Covers area between Gunnerside Beck/Gill on the W, and the watershed at Surrender Ground to the E,

(a) Gunnerside Beck/Gill to Friarfold ~~dish~~ watershed:

GORTON HUSH (NE-SW) 941 014$_0$ - 943 015$_5$, FRIARFOLD HUSH (NE-SW) 940 013$_5$ - 943 015, & BUNTON HUSH (ENE-WSW) 941 013$_0$ - 943 013$_5$, radiate from

Gunnerside Beck where North & Sun Hushes of Lownathwaite mines meet it. BUNTON LEVEL at foot of Bunton Hush, at 9405 0125; HALL EDGE Sh, at 946015, above Friarfold Hush. Further S, BARBARA LEVEL, at 941 016 and another level above it.

(b) Friarfold Watershed to Flincher/Hard Level/Mill Gill:

FRIARFOLD RAKE (ENE-WSW) $95_0\,01_8 - 960_0\,022_5$ (E extension of Friarfold Hush); NORTH RAKE HUSH (ENE-WSW) $958_0\,014_5 - 961_5\,016_0$; OLD RAKE HUSH (E-W) $95_3\,01_4 - 963\,0145$. GALLOWAY SH, 955 020 and BELLS Sh $959_5\,021_0$ are on Friarfold Rake. Just to S is BRANDY BOTTLE Sh. 960 020

OLD GANG MINES, Melbecks, Yorks. (II)

To S of main workings are ROGER LEVEL, $963_5\ 010_0$, LEVEL in Ash Pot Gutter, at $961_0\ 003_5$ LEVEL at 966001 [?VICTORIA LEVEL]. KNOTS HUSHES, near $97_5\ 00_4$

(c) Flincher/Hard Level/Mill Gill to Surrender Ground W'sheo / in Reeth parish

FOREFIELD RAKE (ENE-WSW) $960_0\ 022_5 - 96_8\ 025$, E extension of Friarfold Rake, to Surrender Mine. DANE VEIN SH, $962_0\ 018_5$. NORTH RAKE, centred on $963\ 01_7$, E extention of N. Rake Hush. DRAW WELL RAKE (E-W) $964\ 00145 - 965_0\ 0145$, E

extension of Old Rake Mush. REYNOLDSON'S LEVEL, 9665 0140; and to the S, HERRINGE RAKE LEVEL, 96700 0; HARD LEVEL, 972006.

KCD "F" (1952) 66-7 Two major veins, FRIARFOLD V. (ENE) and OLD RAKE (E-W) diverge E from Gunnerside gill & cross to Hard Level gill. 3 main adits. BUNTING [?= BUNTON], SIR GEORGE [?] and SIR FRANCIS [940 000 see under Lownathwaite Mines], gave access to Gunnerside gill workings, now disused. Now working from HARD LEVEL, in Hard

OLD GANG MINES, Melbecks, Yorks (III)

Level Gill for Ba, Pb. No current productio
& fluorite. Extensive Pb workings from
17th–19th Cent. Lower measures only reache
by a sump from Sir Francis Level!

Galena. Below oxidation zone predominant
gangue is witherite or barytocalcite,
some primary baryte. Above ox. zone,
secy baryte predominates. Calcite. Fluorit
mostly amber, in both Friarfold and Old Rak

KED, N-F (1959) 139. Baryte being recovered from the extensive dumps — details in Dunham & Dines, Wartime Pamph. Geol Surv Engl, 46 (1945) "Ba minerals in Engl. & Wales".
Some underground work, eg at BRANDY BOTTLE DRIFT, showing broad vein with much barytocalcite gangue still in place.
Baryte, witherite. 9600

R.L. Sherlock SRMRGB 3 (1918) "Gypsum ... Celestine.
p58. VICTORIA LEVEL, Lat 54° 24' 0", Long 2° 3' 15", ½ ml W of Old Gang Smelting Mills — waste

OLD GANG MINES, Melbecks, Yorks (IV)

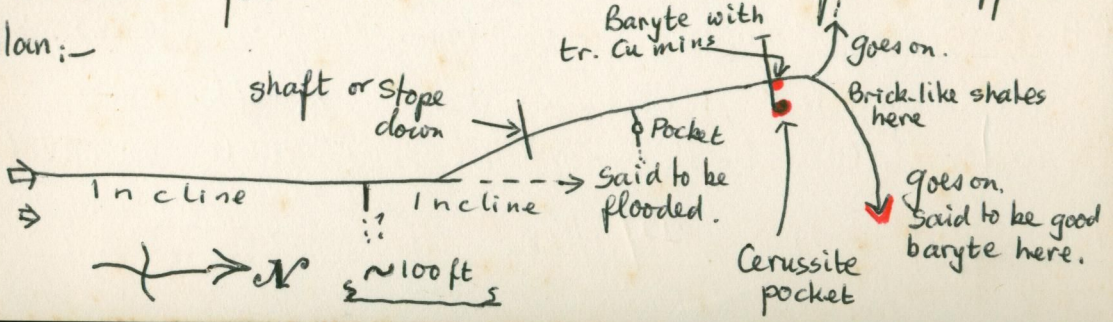
heaps at mouth of level have mixture of witherite & strontianite, pale yellow-green radiating mamillary

D.A. Wray "The Pennines..." Brit Regional Geol. (1948) p 83

Strontianite occurs near Reeth in Swaledale but not in workable quantities

RSWB & J.I. Wilson 22/1/78. Acting on info. received.... explored BRANDY BOTTLE incline.

where a blockage recently dug out.
Track to beside mine normally driveable but blocked by snow & ice on this occasion.
At NY 960 020 two inclines, side by side. ~~&~~ More E one blocked or nearly so. Ignored. W one open. Long, railed, straight incline for several[3?] hundred ft: Approx plan:-



OLD GANG MINES, Melbecks, Yorks (V)

Minerals where shown on plan.
Matrix friable brown gozzan with
much secondary baryte in small
x/s of witherite indicator habit. Some
radiating fibrous white witherite
Spots chalcopyrite, a little rosasite
and aurichalcite, on the baryte. Small
rhombohedra looking bright & almost
pearly, white to pale yellow brown, look
like smithsonite but are calcite (G; 2n-
Some 2Y baryte resembles hemimorphite, in cluste

Some galena veins (most is oxidised away) in baryte-gozzan, with traces closely assoc. [on galena] cinnabar (looking like minium but insol HCl & gives Hg in tube) Some pale yellowish fluorite. goethite blebs. Some chalcopy in fluorite under 2¢ baryte. In pocket where shown: superb white plates, often twinned, of cerussite in beaut clusters on baryte-"limonite" gozzan-breccia x/s → 1 cm □ ⬭ ✳. This pocket is prob part of FRIARFOLD RAKE complex. Some gypsum needles on incline walls

Some under 2¢ baryte

OLD GANG MINES, Melbecks, Yorks (VI)

RSWB & JIW 12/7/78 Return visit; explored E along Friarfold Rake level. Brick-like shale walls, some distorted by pressure — see photos in A Raistrick "The Lead Industry of Wensleydale & Swaledale, Vol 1, The Mines" (1975). After c. 100 ft, brownish secondary baryte in vugs in ceiling (dangerous ceiling of shale & ferruginous gozzany mud, prone to collapse!). The baryte is smallish projecting sharp xls of witherite-indicator habit, as sheets & vugh-linings on the gozzan & ∴ late generation (secondary). Nice groups

collected (fluorescent - phosphorescent - uv)

KCD (1974) Barytocalcite (from Lucky String); fluorite. F/Ba ratio increases downwards, shown in the SIR FRANCIS u'ground shaft (the only deep trial).

B. Young (1987) Trans Leeds geol. Ass 11 [3], 1-8.
Strontianite — Victoria level, 967007, mixed w. witherite. NOT known which vein but Sherlock RLe Hollingworth SE (1938) SR MRGB (Sr) suggest Watersykes Sun V. None found

on dumps recently — "all removed by collecto
many yrs ago" accord. to Mr. Shevels (pers. comm

One block of veinstone from dumps
of SIR FRANCIS LEVEL, Gunnerside
Gill, NY 940 000 has abund strontianite,
white → c'less xline masses to 10 cm,
parts with pale green tint. Xls in
vugs. Encrusts pale brown sphalerite
& rhomboh. calcite. Vein origin
uncertain — level cuts several.

One spec strontianite white rad. fibr.
on witherite & galena from W end
of OLD RAKE, Hard Level Gill, at NY 948 014

Strontianite several spec's from BELL'S SH. dumps at NY 960021 on FRIARFOLD VEIN, BRANDY BOTTLE MINE. Rad. x'line → 2cm, one w. 7mm steep pyr. xs on witherite. Some small calcite x's later than the Sr.

HARD LEVEL at NY 974005 – large dumps where strontianite relatively common. Mostly white⇒col'less rad. x'line → 6cm on calcite & sphalerite or on baryte. A few w. vugs w. pyram xs → 15mm. Some have arsenical calcite betw. the strontianites.

OLD GANG MINES, Melbecks, Yorks (VIII)

B. Young (1987). Trans. Leeds. Geol. Assoc. 11 [2] 1-7.

Aurichalcite well xl'sed, in blocks of fluorite + witherite veinstone on dumps at NY 960 018 from FRIARFOLD VEIN at BRANDY BOTTLE INCLINE. Some with hemimorphite, sec'y barytte, calcite.

A few spec's aurichalcite from HARD LEVEL's extensive dumps NY 974 005, in witherite, strontianite.

Rarely aurich. in witherite-rich veinst on large dumps of BUNTING or BUNTON LE NY 940 012.

Jill Goltz, Pers. Comm. 7/90 BUNTON LEVEL tips on E side of stream. Huskes above. Found: chalcopyrite, calcite, baryte, witherite, fluorite, galena, sphalerite, rosasite (some as inclusions in fluorite), aurichalcite, hemimorphite.

Russ Soc Neurol. 21 (1991) FRIARFOLD M. Extensive dumps & huskes reached from Gunnerside Gill. Baryte, witherite, galena, rosasite, smithsonite, aurichalcite, malachite, cinnabar

R Lamb, Priv Comm 10/93. On dumps near watershed, at NY 948 014 rosasite (checked, FTIR) on baryte with galena, cinnabar, pyromorphite (unchecked).

RSWB, JIW, Mark 6/2/94 From dumps of crushing mill at riverside just below portal of Sir Francis Level, Gunnerside Gill, witherite with pyramidal x/s → ~3 mm in vugs, also assoc with it c'less transp hexag plates calcite. Baryte, galena.

JIW 1994. BRANDY BOTTLE DRIFT (dumps?). Devilline-serpierite. Looks just like aurichalcite — no fizz [illegible] → Cu >> Zn. (Tested RSWB 95-11)

OLD GANG MINES, Melbecks, Yorks (YX)

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

2. The second locality visited by the Society was in Gunnerside Gill in North Swaledale, North Yorkshire. Dumped material was examined which had probably originated in the Old Rake and transported to day via the Sir Francis Level. Baryte, fluorite and witherite were reported as present on these dumps. Banded radiated material, collected as witherite, after chemical analysis proved to be dolomite.

Crystals with an oily lustre lining a vugh, in which both lead and zinc were chemically identified, it is suggested were plumbo-smithsonite. Other rounded colourless and transparent rhombohedra dispersed on both baryte and fluorite, proved to be smithsonite.

F. Ince, Priv Comm (9/91) In GUNNERSIDE GILL nice, yellow fluorite xls.; also on BUNTON LEVEL dumps. (Hungry Hushes)

OLD GANG MINES, Melbecks, Yorks (X)

R. Soc. N. (1994) 25

Gunnerside Gill, N.Yorkshire [Grid Refs: see text.] - 19 June 1994

NB, Leader: Trevor Bridges

A very select group of five turned up on Father's Day for what proved to be an interesting and pleasant day in warm sunshine. The idea was to look at some of the less visited localities in the area, rather than rush off to the Friarfold Hush and the Sir Francis Level dumps. Initially we stopped at a small trial at NY 938 002. As predicted from the path above, this was fairly barren, but it did produce some green smithsonite and yellow 'greenockite' (more accurately cadmium sulphide stains), a mineral I have not previously found here. We then moved on to the North Hush NY 936 014. Sorting out slags from real minerals proved difficult here, but good cerussite with galena ('steel ore' form), witherite, fluorite and smithsonite were found. The party then moved on to the Friarfold/Brunton complex for lunch and a brief stop, before visiting the old dumps at NY 942 006. The most obvious mineral here was large amounts of flowstone calcite but more smithsonite turned up with malachite and aurichalcite. We then walked out on the path high up the east side of the valley, noticing several more dumps on the west side that we had missed on the way in. There is plenty of new scope for a future visit.

25 September 1993 Swaledale, N. Yorks.

A fine early autumn day welcomed almost 20 Northern Branch members as they met at Surrender Bridge [NY 988 999], north of Low Row. Before setting out on a trek up Hard Level Gill the essential features of the area's geology were described and the nature and relationships of the numerous mineral veins in the so called North Swaledale Mineral Belt outlined.

RSN (1994) 24

The first stop was made at the Old Gang Smelt Mill [NY 974 052] one of the largest and best preserved lead mining relics in the Yorkshire Pennines. On the opposite, south, bank of Hard Level Gill the large dump from Hard Level provided good representative samples of several of the area's minerals,

P.T.O.

including good examples of baryte, witherite, calcite and strontianite. The collapsed entrance to the Hard Level exposes a thin coal seam and ganister seatearth beneath the Undersett Limestone.

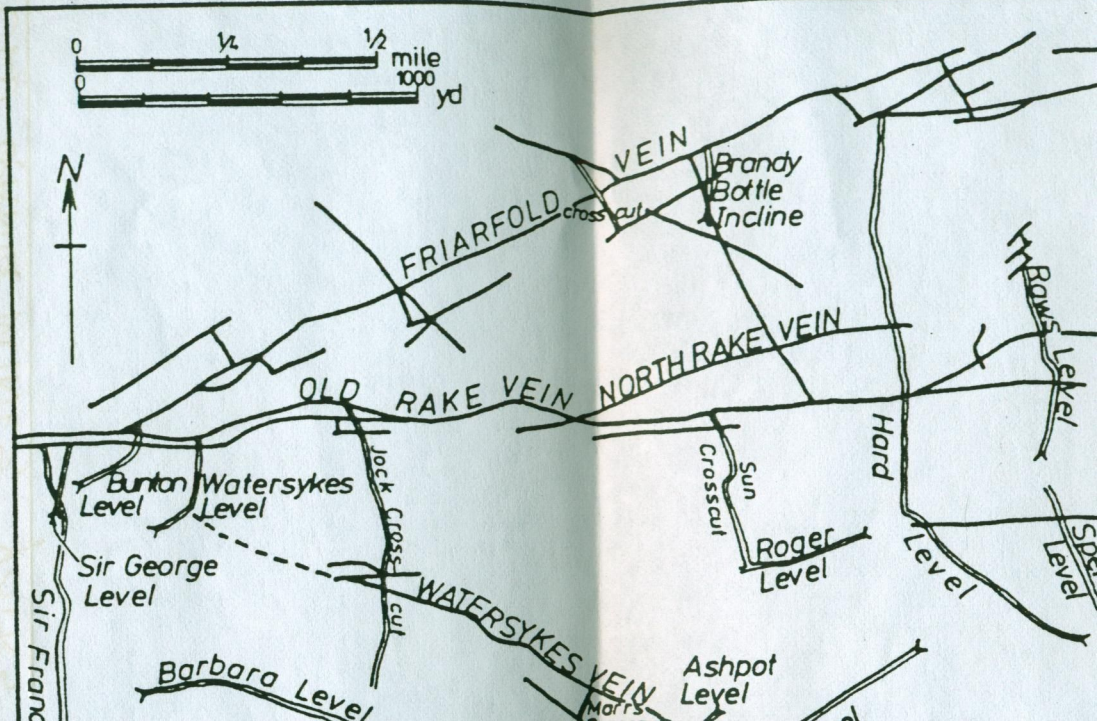
Further up the valley at Level House Bridge [NY 964 014] an *ad hoc* referendum amongst the party decided that we should turn west and follow the impressive belt of old workings along the Old and North rakes. The enormous spread of dumps, especially on the hill top [NY 952 014] above Gunnerside Gill, have been partly excavated in recent years to recover baryte. Although this operation has now ended vast amounts of good vein material are available and provide excellent scope for mineralogical browsing. We were rewarded with good examples of witherite and 'chisel-shaped' baryte crystals together with a few examples of cinnabar and rosasite. The memory of one member who had several years previously collected good crusts of pyromorphite, a very uncommon mineral in Yorkshire, was tested successfully and his prize site located.

Democracy was pressed into service again and we opted to retrace our steps down Hard Level Gill rather than face the rather arduous return route via Gunnerside Gill.

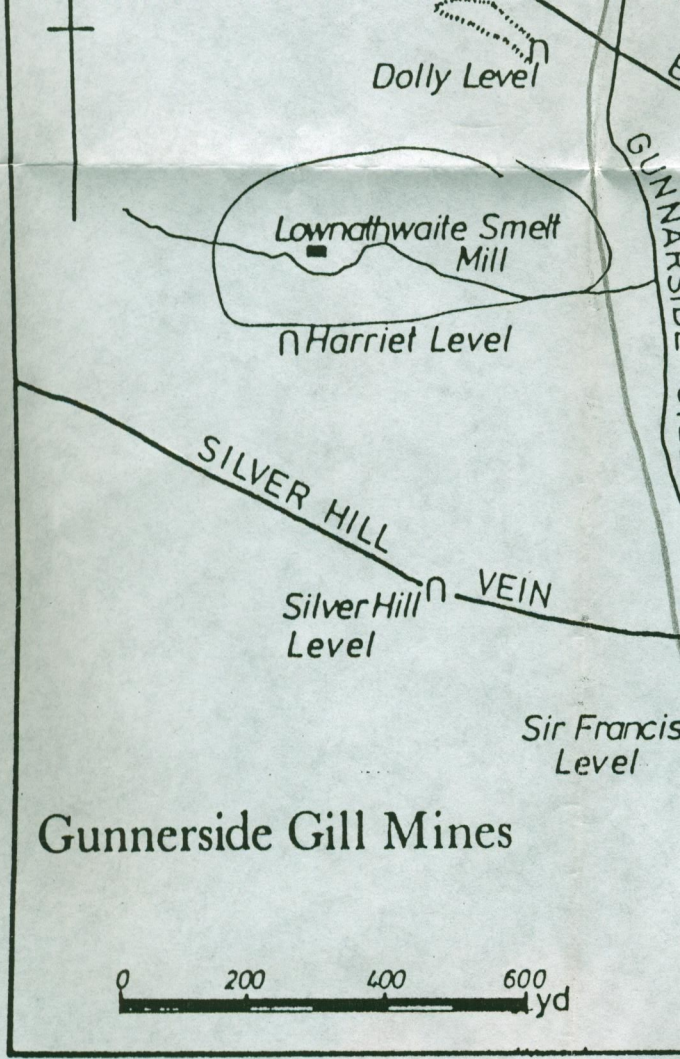
We were today fortunate in having with us Richard Lamb who has made quite a speciality of studying the smelt mills of the Yorkshire Pennines, and in particular the slag 'minerals' contained in their spoil heaps. To conclude the day Richard described some of the unusual, and in some instances colourful, slag minerals recovered from the nearby Surrender Mill tips. Having studied his samples carefully a small group of enthusiasts spent an interesting half hour at Surrender finding examples of most of his new 'minerals'.

Brian Young

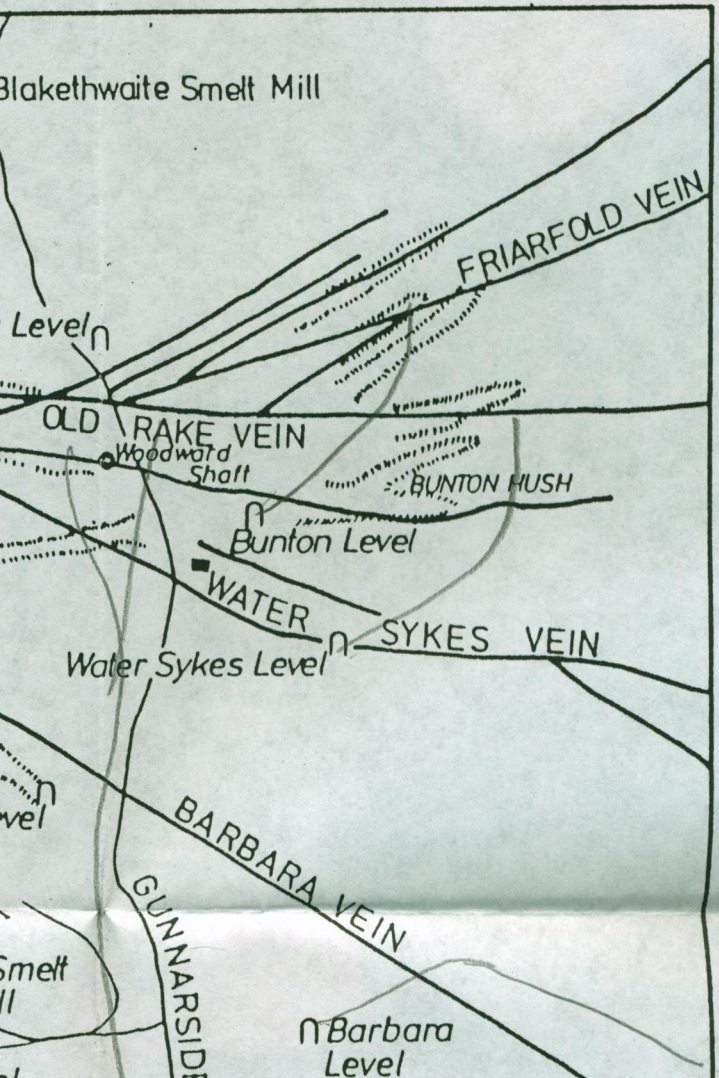
OLD GANG MINES, YORKS (XII)


0
½
1½
mile
0
1000
yd
N
VEIN
Brandy
Bottle
Incline
FRIARFOLD
cross cut
Rows Level
OLD RAKE VEIN
NORTH RAKE VEIN
Hard
Level
Sun
Crosscut
Roger
Level
Spe
Level
Bunton
Level
Watersykes
Level
Jock Crosscut
Sir George
Level
WATERSYKES VEIN
Barbara Level
Ashpot
Level
Marrs

OLD GANG MINES, Yorks (XI)



Map 2 Plan of the Mines, veins and level


Blakethwaite Smelt Mill
FRIARFOLD VEIN
Level
OLD RAKE VEIN
Woodward Shaft
BUNTON HUSH
Bunton Level
WATER SYKES VEIN
Water Sykes Level
BARBARA VEIN
GUNNARSIDE
Barbara Level

OLD GANG MINES, Melbecks, Yorks (XIII)

RSN (1996) 29, 14 [31 March 96]

Gunnerside Gill: First dumps - a strontianite.
Riverside dumps: strontianite, a small rosasite, good xline witherite.
Friarfold and "Brunton" Hush dumps at 965 024 - rosasite, aurichalcite, hemimorphite.

M. Wood UKJMM (1993) 12 p16 strontianite from Gunnerside Gill, at Sir Francis level; at 9399 0001, with pyrite, sphalerite, fluorite, witherite, galena, calcite, hydrozincite coatings. "Bunting (= Bunton)" level; at 9403 0121 strontianite with witherite, calcite, fluorite, baryte, galena, smithsonite (some ψ after strontianite).

RSN(1988), 33, 18-19 witherite, cerussite, aurichalcite, baryte, fluorite, galena, pyromorphite, goethite, wad.

Vaughan & Ixer(1980) Trans Inst Min'g Met 89, 99-109 "stibioluzonite" (= famatinite) from "MELBECKS MOOR"

RSN('03) 42, 32-3. Visit, led by R. Lamb. Usual minerals.

J Russ Soc ('03)(D. Green) p41. Gearksutite from ALDERSON'S V., with gypsum LUCKY STRING, W part of Ketenagite, serpierite

OLD RAKE (HUSH), Melbecks, Yorks

See OLD GANG MINES

1" 90 SE 060 962 - 064 958

OLD STORK VEIN, Ellerton Abbey YORKS.

OS map: NW - SE

1" 84 NY 87 27

ORE PIT HOLES, Holwick, Yorks

KCD (1948) 313 Ore Pit Holes opencast, 1½ mls W of Holwick is 2500' long on an E-W vein with limonite. Ancient heaps of iron-slag occur here.

OS 1" map shows "Ore Carr" near 878 277.

OUT MOOR M., Starbotton, Yorks

See STARBOTTON M's

1" 90 SE 01-02 70

OUTMOOR MINES conistone, Yorks.

See also MOORHEAD, MOSSDALE Mks.

McGill (1994) "The Wharfedale Mines" pp59. Maps p 62, 67
15 named veins. Aerial photo p 64.
Closed 1872. History, indust. archaeol.
Lead mines

OVENING NICK, Arkengarthdale, Yorks

See FAGGERGILL MINE

1" 84 NY 92 25

PARK END, Holwick, Yorks.

KCD(1948) 314. A little iron ore was got from W of W. crosthwaite Fm, 1 mi E of Middleton-in-Teesdale. Site now covered with dumps of Crosthwaite Whinstone Quarry.

SE 16

PATELEY BRIDGE, Yorks.

TMH(1868), 71. In Mill. Gr. Strontianite. [see MERRYFIELD MINE, Bewerley (or Pateley Bridge).

Pateley Bridge is in HIGH & LOW BISHOPSIDE PH, but most locs. near "Pateley Bridge" are in BEWERLEY PH, (q.v.). or APPLETREEWICK PH (q.v).

G+L(1858): Strontianite, snow-white translucent acicular xls, at Pateley Bridge and at Nidderdale.

SD 767 494

PAT HILL, Bolton by Bowland, Yorks

See also VICTORIA MINE, etc.

GS 6" map shows short NW-SE vein at 767 494. Probably SE extension of one of the Victoria mine veins (qv)

PEAT (PEAT'S) PASTURE SE 105-110 633-638 (I)
~~GALLOWAY'S VEIN~~ Greenhow Hill Beverley, Yorks.
(includes GALLOWAY PASTURE, cont' on 113 634

BM Spec. Cinnabar with galena, cerussite, limonite, fluorite & baryte "Peat Pasture, outcrop of Galloways Vein, Greenhow Hill, Pateley Bridge Yorks. 1928 ~~[illegible]~~ From W.W. Varvill, 1930" From the collection of Sir Arthur Russell. Cinnabar checked by X-ray (RD) 5/63. See Nature, 200 1004 (1963)

KCD "F" (1952), 74. "Galloway Vein" - strong E-W vein proved for ½ mi across N side of Galloway Pasture. Galloway "gulf" is pipe like body 80' across at intersection with a cross course. Has clay with patches colourless

RSWB
to
g
c
g
E

traces grit, etc.
golf, splits
aft said to
ll adult system
rubbish 12 ft down

dug over. According
d to mill on

good censsite
pyromorphite
nall (1–3 mm) x's.
galena.

fluorite, coarse galena with oxidised surfaces, grit, etc. Fluor being worked 1942. W of gulf, splits into two - on S branch is Duke Shaft said to connect with end of extensive Cockhill adit system 350' down but now blocked with rubbish 124ft down.

also 9/63 IV, 15

RSIOB, TBG, GR, GS III 113-4 (6/7/63) N Side being dug over. According to foreman, 2 veins exposed, & stuff carted to mill on Grassington Moor for processing.

galena, with baryte, good anglesite, good cerussite, calcite; fluorite, colourless cubes; pyromorphite, grass green; quite well xtsed but small (1-3 mm) x/s. Cinnabar in baryte assoc. with galena.

PEAT('S) PASTURE, Greenhow Hill, Bewerley, Yorks (II)

AWGK, MM (1968) 37 xlii (Exhibit) See P.G.E., "4th List"
MM (1978) 42 169-77. Cinnabar, tetrahedral pseudomorphs after metacinnabarite — "PEAT'S PASTURE"

1" 90 SE 005 7005

PECK O' MALT MINE, Conistone Moor, Yorks

OS 6" map shows "Peck O' Malt Mine (Lead, dis.)" at SE 005 7005

PENSION RAKE M., Hebden, Yorks.

See HEBDEN M's.

1" 90 Cenion SE 080 938

PETTICOTE RAKE, Preston under Scar, Yorks

OS map: NW–SE

1" 90 SD 88 63, 8763

PIKEDAW HILL, area Malham, Yorks (I)

A. Raistrick, The Naturalist (1938) 975, 119. Between Pikedaw and Grizedales [8764], well-marked veins of quartz (often xls) + plenty pyrite. Good eisenhut on Grizedale. Galena, anglesite, smithsonite, malachite, azurite, baryte, calcite, aragonite (flos ferri). The baryte usually red-purple stained masses, occas. good xls. Smithsonite always in crusts,

pure white mamillated, up to 2 in thick [!!].
W.E. Sheffield, quoted by Miall in Suppl. to
Whitakers "Craven" 3rd Ed., (1878), records "white
zinc oxide powder, not met with in any
other parts of England". The smiths. veins
worked by deep shafts on one side of Settle-
Malham bridle path & several on Pikedaw
& Grizedales. A long vein worked by several
opencuts & a deep shaft between Pikedaw
& smeltmill. ½mi W of calamine mines &
between Grizedale & Kirkby Fell, veins have
very little zinc, mainly pyrite with a little
malachite & azurite; plenty quartz.

See (II)

PIKEDAW HILL, Malham, Yorks (II)

J.O. Myers et al "Pikedaw Calamine Caverns Rediscovered" in A. Gemmell & J.O. Myers "Underground Adventure" Clapham, Yorks; and London (1952) pp. 76–84. p 78 plan of cavern. p 71 photo of shaft, covered by logs. At side of Stockdale-Malham footpath. Shaft marked on OS 6" map as a "lead mine". On dumps not far from shaft numerous small pieces of azurite and malachite. Explored Oct. 1946. At foot of shaft, dump of creamy yellow stuff – analysed by G.A. Bottomley –

mainly Zn carbonate [ie smithsonite]. Two passages from wide chamber on the SW of the shaft..... on the walls of one, were thin layers of Cu carbonate, also a stalagmite floor, cave pearls.

Mr. Tot Lord of Settle came forward with some mine documents!

[Is this the shaft on OS 2½" maps at 876 640 ?]

GR; Priv Comm. Coll 19... (?) Beaverite + quartz (IR)
from dumps ~ SD 875638

GR Priv Comm ~ 1986. Around SD 875638,

PIKEDAW HILL AREA, Malham, Yorks (III)

between Kirkby Fell e grizedales, low spread-out dumps, visited initially 1973. One shaft several depressions. Dumps mainly smalls. Calcite; spongy masses xlised quartz; baryte; some galena. Small pieces azurite, malachite Jarosite fairly common, but the brighter-yellow or greenish-yellow beaverite-like "Malham unknowns" rather rare.

Partly run-in adit "1872" on portal keystone, at ~ 884635, S slope of Pikedaw Hill, almost completely overgrown dumps below. Only white & brownish calcite seen.

1"90 SD 904 748

POTTS BECK VEIN, Halton gill, Yorks.

See also HESLEDEN BANK, WEST CLOSE

McGill (1994) "..Wharfedale..." 72. Lead trial 1756 and 1858-1860.

1" 90 Centred on SE 07 94

PRESTON MOOR, N. Yorks.

BMS Nl. (2001) 59, 12. Peter Reynolds coll. "water clear tabular baryte crystals from Preston Moor in North Yorkshire", "some time ago".

1"OS(90) Shows many shafts, mostly "Old Coal Pits", but Pb mines adjacent eg Grinton Moor, Cobscar Rake, etc. see also CRANEHOW BOTTOM M.

PRIMROSE VEIN, Reeth, Yorks

See ARKENGARTHDALE Ms.

PRISCILLA LEVEL, Melbecks, Yorks.

See LOWNATHWAITE M's.

1" 90 SD 93 67

PROCTOR HIGH MARK, Bordley, Yorks. (I)

See also KILNSEY MOOR; LOW COTE MOOR

A. Raistrick, The Naturalist (1938) 975, 119. At least 35-40 joint-oriented veins/ strings. To the SE, towards Kilnsey Moor, worked by rows of bell pits, a small opencast, no deep shafts. On P.H. Mark, many shafts & some opencasts. Calcite, baryte, galena. Fluorite less common, mainly yellow. Prehnite & quartz also not common. The baryte carries occasional Cu, usually malachite. ½ mi to the N is

a small but similar group of veins, on Lee gate High Mark, at head of Wusher Gill. Same minerals but no prehnite. [ca 9368]

Smelt mill was at Kilnsey, dressing floor at head of Nowgill Beck [95 67]

I. Williamson (10/71) Priv. Comm. Says Raistrick once identified a hemimorphite as "prehnite" in his presence.

A. Raistrick (1973) "Lead mining in the mid-Pennines" 144-145

Rayner & Hemingway (1974) 300. Prehnite – GS 6 "Yorks 115 See II ("KCD '74")

PROCTOR HIGH MARK, Bordley, Yorks. (II)

KCD (1974) 300 (Footnote to Table 14¾ in which Prehnite listed): At one loc. on Kilnsey Moor only on the authority of the published Geological Survey 6 in. Yorks 115, map.

MCgill (1994) "The Wharfedale Mines" 72, 74. At least 9 veins SW-NE treading, cross from Hawkswick Clowder onto P.H.M, & 1st ridge. 4 opencasted & worked from shls v 13 fm deep. Veins only inches wide & soon pinched out. 6 tons Pb raised 1852-3. Map P76

PROSPEROUS LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

1" 91 Near SE 119 660

PROSPEROUS and PROVIDENCE MINES, Bewerley, Yorks.

RSWB, TBG, GR, GS, III 114-115 (6/7/63) Main dumps seen near 119660: big, not examined. Low dumps on N side of beck at ~~near~~ 122-3, 663, consist of small waterworn rounded pebbles of fluorite, barite, & calcite

RSWB, JIW, 1/94 Large dumps & ruins of Providence mine, at 119 660-1 examined A lot of fines in places. Much calcite some in interesting crystal habits, eg

Wheal Rey habit long trig prisms with flattish rhomboheds. Termini's - some tapering to look more like aragonite; some short prismatic milky of "hex" habit with nearly flat terminations looking like witherite! Also barytes, galena, sphalerite. An aragonite-like specimen with spiky x/s → ~2cm (including embedded parts) into cavs & compact radiating, white, in parts, is strontianite (FTIR).

Fluorite c'less → pale yellow

A. Raistrick (1973) "Pb Mining in Mid-Penns" p 45. Hydrozincite (PROVIDENCE M)

OLD PROSPEROUS LEV., Hebden, Yorks

See GROOVE GILL V.

PROVIDENCE M's, Kettlewell, Yorks

See KETTLEWELL M's

1" 90 SD 887 965

PROVIDENCE MINE, Muker, Yorks

See also LOVER GILL V.

OS 2½" map shows "Providence mine" at Providence Hush, at 887 965

1" 90 NZ 06 02

PRYS MINE & LEVEL, Marrick, Yorks.

OS 6" map: Prys Pb mine, centr. on 062 021,
Prys Pb level, at 066 025.

1"90 NY 95-6 03-4

PUNCHARD GILLS, Arkengarthdale, Yorks

See also ARKENGARTHDALE M's.

OS 6" map. Great Punchard gill: ROUTH LEVEL, $961_5 044_0$; FOX's Pb LEVEL, $958 042_2$; AGNES Pb LEVEL, $954_5 042_0$.

Little Punchard Gill: Lead shafts & level: STONES LEV., 964 042; COCKER LOW SH., 957 035; COCKER HIGH SH., 953 035; BISHOP SH., 958 030

1" 90 NZ 052 025

QUEENS LEVEL, Marrick, Yorks

See also HIND RAKE etc.

OS 6" map. On or near HIND RAKE. Lead level.

1" 90 NZ 030 023 – 037 020

RACCA VEIN, Marrick, Yorks

See also ARKENGARTHDALE M's, HIND RAKE etc

OS 6" map: NW-SE. SE ? Continuation of Primrose Vein and/or Fell End mine, to join Hind Rake / Hurst Vein to the SE.

1" 90 SD ~~NW~~ 903 898

RAIGILL MINE, Hawes, Wensleydale, Yorks

Purple fluorite

RSWB. RLamb 4/~~88~~: Open adit in field to N of road, at 903 898; wet, goes in to S. Quite large dumps. galena, chalcopyrite + sphalerite; matrix fluorite some excellent crystals usually pale yellow, rarely purple tinged, to ~ 1 cm. Very fine but weathered calcite crystals in attractive clusters of nailhead habit, x/s to several

cm; baryte. Malachite widely but thinly distributed mostly powdery some tiny sprays of needles. Some limbaite as matted micro-blades coating galena. Brown weathered rhombohedral siderite

RAIN SLACK M., Kettlewell, Yorks

See KETTLEWELL M/s.

RAKE BECK, Gayles, Yorks

See WAITGATE GILL

1"90 SE 0455 9365

RANDY SHAFT, Redmire, Yorks.

May be for coal or lead?

SD 940 453

RAYGILL MINE, Lothersdale, Yorks

See also CONONLEY MINE, Cononley.

SRMRGB II, Ba. (1915), 41. At 53° 54' 15", 2° 5' 25", 4¾ mls NE of Colne. 3 veins & numerous strings of baryte in Carb. Lim in Raygill Delf. Ba got in quarrying limestone. Platy baryte, calcite abundant; some fluorite in strings. One thin string has "dialogite" (manganese carbonate) [rhodochrosite].

OS6" map shows "Raygill Delf" at above loc, forming part of "Lothersdale Lime Works"

RSWB, TG. 11/3/62. Field Repts II, 13-14, Photos p 14-16; RSWB, TG & RAH. 27/5/62 Repts III 103 (27/6/63) II pp 59-60 pro

Superb pyrite in shale & limestone nr shale boundary; blende, traces; ankerites – dolomite to siderite; plenty baryte, white to pink, platy; fluorite, colourless to blue-purple; limonite with iridescent micro-botry. goethite; small vg bff d-term quartz xls; chalcopyrite, small (1mm) tetrahedra

JR Earp et al "Geol of Clither & Nelson" (1961) 2 E-W calcite-baryte veins, also branches. Also fluorite "& "dialogite". Adit at 760' OD from road near limekilns & runs S along N-S xkern. Closed 1895

1" 90 SE 057965 – 058960

REDWAY HEAD VEIN, Ellerton Abbey, Yorks

OS map: NNW – SSE

SE 0 9

REETH, Swaledale, Yorks

See also OLD GANG MINES

DA Wray "The Renmines ..." Brit Regional Geol (1948), 83

Strontianite occurs near Reeth in Swaledale but not in workable quantities.
[? Victoria Level, Old Gang Mines]

REYNOLDSON'S LEVEL, Reeth, ~~Melbecks~~, Yorks

See OLD GANG MINES

1" 91

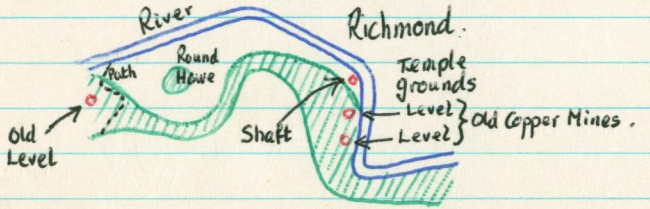
RICHMOND MINES Richmond, Yorks.

NZ 165 005-8
155 007

~~See also FELDOM M; GINGERFIELD; MIDDLETON TYAS etc; APPLEGARTH~~ (Swaledale). Richmond at 1"(91) 1701.

SRMRGB XXX "Cu..." (1925) p.30: Levels opposite the Nunnery, just outside Richmond: chalcopyrite; traces malachite; no blue ore. Last worked 1910. Workings only go ca. 100 yards into hillside.

OS 6" map:



A. Raistrick (1975) "The lead industry..." 96.

with Cu & Pb ones in its spars.

Wadge A et al (1981) "Copp. mineral'n nr. Midd. Tyas". Miner. Reconn. Progr. Rept. Inst. Geol. Sci. 54

Billy Bank Cu mine; adits 1650 0062, 1649 0057.
Calcite, chalcopyrite, mal, azur, ch'colla.

1"90 NZ 043 025 – 046 03

ROAN HUSH, Marrick, Yorks.

See also ARKENGARTHDALE M's; HIND RAKE etc.

OS 6" map: NE-SW. Near HIND RAKE

NZ 90

ROBIN HOOD'S BAY Yorks.

According to R Lambert, Editor "Gems" (1976). Agate.

ROGER LEVEL, Melbecks, Yorks.

See OLD GANG MINES

ROMAN LEVEL, Beverley, Yorks

See SAM OON LEVEL.

ROSEBERRY, Yorks. ?

G & L (1855). Good jet in veins between the rocks [of Whitby?]

R Lamb 5/85 Jet Unlikely at or near Roseberry Topping in the Cleveland Hills, (nr Guisborough).

ROUTH LEVEL, Arkengarthdale, Yorks

See PUNCHARD GILLS

1" 90 NY 874 013

RUMBLE POOL LEVEL, Muker, Yorks

See also KELDSIDE MINE

OS 6" map: Lead level on S bank of R. Swale opposite Keldside mine

1" 95 SD Nr 750 492.

St. HUBERT MINE, Grindleton, Yorks.

See also VICTORIA MINE, PAT HILL, HERRISS,

OS 6" map shows "St Hubert Lead mine" at above loc

GS 1" map 68 shows EW vein, marked "Ba, Pb." at loc.

RSWOB, TBG, IN 123 (21/7/63) Failed to find mine.

JR Earp et al "Geol of Clitheroe & Nelson" (1961)

A SE vein, at 749 493

SE 11 64

SAM OON LEVEL, Beverley, Yorks.

See also COCKHILL & SUNNYSIDE MINES

1" 90 SD 895 929

SARGILL MINE, High Abbotside, Yorks

OS 6" map shows "Sargill Lead Mine" at 895 929.

1" 95 SD 77 46

SAWLEY, Yorks

JR Earp et al "Geol of Clith. e Nels" (1961)

Pyrite vein in BRIERY BANK WOOD 786 477
Small galena vein in q'y N of Sawley Grange at 793 472
1" OS map marks "Hartsails Wood" at SD 786 477
6" OS map marks N-S vein N of Sawley Grange
at SD 792 470 - 792 475.

1"90 SD 84 62

SCALEBER BRIDGE, Settle, Yorks

See also SETTLE

RA Ixer & CJ Stanley, (1998) J Russ Soc. 7, 41-42

Heavily malachite-stained, coarse-grained, vuggy calcite Xls w. visible sulphide inclusions coll from limestone outcrops close to SCALEBER BRIDGE SD 842 626. Insol residues from dil. HCl examined:- pyrite, chalcopyrite, marcasite, 5μ grains of tennantite, minor galena, sphalerite; enargite-group → luzonite to famatinite. "Limonite"

1" 93 TA 04 89

SCARBOROUGH, Yorks.

See also AYRTON,

TMH (1868), 71: Mid & Lr. Ool. Felspar; jet; pyrite; scarbroite.

G+L (1858): Jasper; carnelian, on the beach; felspar, opalescent rolled pebbles on the beach; scarbroite, in a reddish calcareous rock between septa of ironstone, on the coast.

GR (1986) for J. Russell Soc.

IR on old Maidstone Mus. spec's of "scarbroite" showed in addition to scarbroite,

massive basaluminite, also massive allophane with patches & powdery aluminohydrocalcite as micro, thin needles ~0.06 mm long. Labels suggest loc as "White Nab, Scarbro" [TA 059 864]

1" 84 NZ 009 092

SCARGILL MINE, Scargill, Yorks.

OS 6" map: Lead mine.

SCATTER SCAR HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

"Scotton" is at 326 593
SE 35

SCOTTON MOOR, Knaresborough, Yorks.
See also The NIDD, etc.

Greg & Lettsom (1858),69: Celestine, white & opaque.

1" 90 SD 99?? 88??

SEATA MINE, Aysgarth, Yorks.

KCD "F" (1952), 69: On S side of R. Ure, ¼ mi W of Aysgarth - a vein trending N 60°-85° W. Dumps have coarse, well xlised amber & purple-edged colourless fluorite; sphalerite, galena, calcite.

A NW vein through Ballowfield Fm, N of the river, traced. Fluorite & galena replacing l'st (a "flst") recorded in railway cutting S of the farm, by A.H. Green. ? Continuation

of Wet Grooves deposit? Still further SE, an E-W vein at West Burton [NZ 01 86] tried by an adit on W bank of Walder Beck [OS 1"map: "Walden Beck"] - coarse pale fluorite on dump

1" 90 SD 82 63

SETTLE, Yorks

See also SCALEBER BRIDGE

Ian Williamson, Priv. Comm. (2/70) Cunliffe Hind (? Ref) panned gold in "the hills above Settle". "Enough to fill a tooth".

G.T. Kay (17/1/73) told RSwB that when young he panned for gold fairly near where Cunliffe Hind obtained his from a pocket in an old stream bed. Kay panned £4-worth from stream-strand

material after flooding. "From Scaleber Force [840_5 625_0] follow cart track signposted "Footpath" to Airton" [9059], through 2 fords on to wood on LHS. On RHS is the stream." Gold; also "fool's gold" [pyrite]. Did not find gold higher up stream.

[This seems to be Bookil Gill Beck, near 8460; or Ingle Beck near 8860??]

SHAW LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

SILVER HILL LEVEL, Melbecks, Yorks

See LOWNATHWAITE M's

SILVER RAKE M., Kettlewell, Yorks

See KETTLEWELL M's.

SIR FRANCIS LEVEL, Melbecks, Yorks

See LOWNATHWAITE M's.; OLD GANG MINES

SIR GEORGE LEVEL, Melbecks, Yorks

See OLD GANG MINES

R. Lamb (5/85) = SIR GEORGE DENYS LEVEL

1" 95 6" Yorks 183 NW | SD84SW 814-5, 449-50

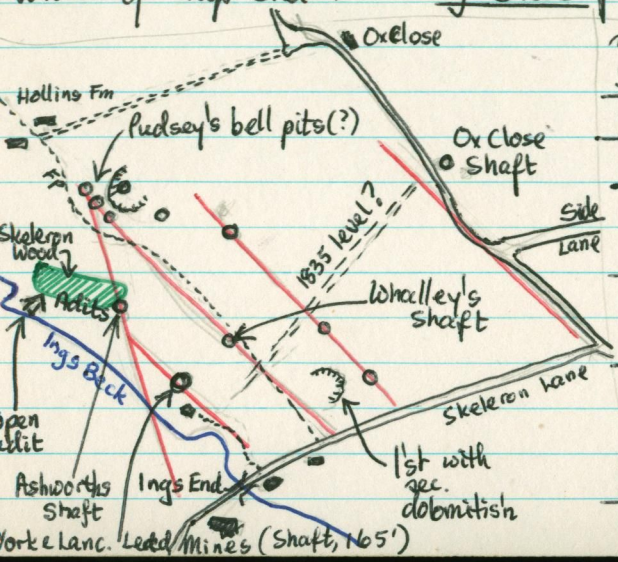
SKELERON MINES, Rimington, Yorks (I) (and Twiston Lancs)

SRMR GB "Ba..." (1916) p. 38: 1 mile SE of Rimington, near Clitheroe. Argentiferous galena; baryte; "calamine"; calcite; a little fluorite & dolomite.

OS 6" map SD84SW shows "York & Lancaster Mines (Lead) (Disused)" at 814 449 – 815 450, just NW of Ings End, off Skeleron Lane, in pH of Rimington, Yorks, but partly in Twiston pH, Lancs.

I.A. Williamson "Journal of the Past & Present Mining Students' Association" 1 (1959) 46-50 (Wigan & Dist. Mining Tech Coll). (with sketch map p10) Historical account, also geology. In Carb Lim with secondary dolomitisation (visible in the old quarry 550' NNE of Ings End) probably contemporaneous

with the mineralisation. Three main veins, largely baryte, with galena. Another, baryte vein 1000 yds WNW of Ings End.



Galena f. common - supposed Ag-richness not borne out in our analyses. Sphalerite, rare, reddish. Pyrite, rare. Cerussite & anglesite form a white crust to the veins. Smithsonite, rare, pinkish waxy botry; "Limonite" gozzan, Siderite, rare; Fluorite, f common, colourless cubes, some pale blue coll. "in the past". Baryte common, xline, massive & nodular rarely ψ-s galena. Calcite comm.

SKELERON MINES, Rimington, Yorks (& Lancs) (II)

RSWOB, Judith Tattersall, TBG., 11/63; IV, 27-28: Calcite; baryte; galena; some fluorite, c'less cubes; a little limonite ψ after pyrite. Largely grassed over. Collecting poor.

JR Earp et al "Geol of Clith & Nels" (1961). Refers to I. Williamson's paper

1"90 SD 988 602

SKELTERTON, Cracoe, Yorks.

See also SWINDEN, LANGERTON HILL

McGill (1994) "... Wharfedale ..." 92. Trials on S side of Skelterton Hill, 1739, 1753–1755. 0.71 tons Pb ore in 1755

1" 90 NZ 07 02

SKELTON MOOR, Marske, Yorks.

OS 6" map: "Old Pb mines" across N end of moor, near 074 023 — 08$_2$ 02$_4$

SKYREHOLME MINES, Appletreewick, Yorks.

See GILL HEADS MINE; also APPLETREEWICK MINE

1"90 SD 975 632

SKYTHORNES PASTURE, Skythorns, Yorks

See also THRESH FIELD, WHITWAY.

McGill (1994) "...Wharfedale..." 84. Lead trials 1745, 1758, 1852, 1866. Total recorded only ~1¼ tons Pb.

SLANT GATE HEAD VEINS,

Buckden, Yorks

See BUCKDEN GAVEL M's

1" 90 SD 83 99

(Great) SLED DALE, Muker, Yorks (I)

OS 6" map shows "Old Mine (Copper)" at SD 829/5 991/6, and "Hush Gutter" at 831 996 - 833 992 (NNW-SSE), with "Old Lead Mine", "Shaft" and "Level", at 832 994 also "Leaden How Gill" (E-W) at 831-8 996, with "Old Lead Mine" at 834 995

SRMRGB 30 "Cu" (1925) p30: "Sleddale copper vein" above Keld in Swaledale - "blue copper ore"

P.T.O.

RSWOB & GR 29/5/70; V,

"Copper mine" at 829 991 is a small trial on SE side of beck at foot of scar. Small dump of fines and small pieces. Gangue = quartz, colourless fluorite, baryte. Pitch galena chalcopyrite, small patches of malachite, haematite (massive) ?? pyrom.
No blue minerals seen.
Lead mine in Hush Gutter at 832 994. Open adit - wet. small dumps, mostly grassed over. On one dump, 832 993 material exposed — shale, limestone, grit, with quartz, baryte, fluorite colourless → pale yellow, calcite/dolomite, sparse

(Great) SLED DALE, Muker, Yorks (II).
galena, chalcopyrite altering to spots
malachite and azurite.

SNUFF HORN SHAFTS, Arkengarthdale, Yorks.

See ARKENGARTHDALE M's.

1" [redacted] 84 Cont. on NZ 009 099

SPANHAM HUSH, Scargill, Yorks

OS 6" map: Cont. on NZ 009 099

1"92 SE 720 870

SPAUNTON QUARRY, Kirkbymoorside, N. Yorks

Russ. Soc. N'letter (1995) 27, 15. Limestone quarry, with fossils in the Coral Rag. Calcite.

RSN (1998) 32, 16. Calcite e quartz xls. Best known for fossils.

RSN (2000) 36 23 ### . Fossils Ca, qtz, "h'carbons" [bituminous minerals]

1" 93 TA 15 74

SPEETON, Yorks

R.J. Whittaker, Priv. Comm. 11/71. Calcite, var. nailhead spar, on dolomite in cracks in septarian concretions, also pyrite, also c. w. ammonites, clusters of tiny octahedra, in Speeton Clay (Lr. Cretaceous) which outcrops on the coast between TA 1476, 1475, 1575. Pyritisation & calcitisation of fossils mentioned by C.W. Wright, "Geol. of Yorkshire Coast", Geol. Assoc Guide 1968 34 p. 39.

R. Lamb 5/85 Is SPEETON not "SPEETON." Knows it well.
OS Gazz: SPEETON, TA 1574

1" 90 SD 936 965

SPOUT GILL Pb MINE, Muker, Yorks

1" 90 SD 865 947

STAG FELL GROVE, High Abbotside, Yorks.

See also LOVER GILL V.

KCD "F" (1952) 68. On continuation of Lover gill Vein. Fluorite, baryte, galena.

OS 6" map shows "STAG'S FELL GROOVE LEAD M." at 865 947

1" 90 SD 870923 – 877918

STAGS FELL QUARRIES, High Abbotside, Yorks

OS 6" map shows "Stags Fell Quarries" between above map refs - with several levels.

1" 90 Cent. on SE 082 957

STAINTON Pb MINE, Stainton Yorks.

OS map also shows DAGGETS LEVEL 088 956
and WYVILL'S LEVEL 095 958

STANG MINE, Arkengarthdale, Yorks

See ARKENGARTHDALE M^ls.

1" 90 SD 94-96 72-77

STARBOTTON MINES, Starbotton, Yorks.

McGill ~~1966~~ (1994) The Wharfedale Mines, 24-40
History, indust. archaeol. Map p25. Four areas ① CAM PASTURE, SD961-4 742-4;
SPRINGS WOOD LEVEL, CAM OLD RAKE, STONEY RAKE, MERRYFIELD V., LADD RAKE, TINKER RAKE, CALF GARTH RAKE, DOVE COVE VEIN
Lead ore, baryte, fluorite. Map, p.53
② OUT MOOR & FELL PASTURE, SD 960-8 754-770;
LONG CHANCE V. 969754; PRIVY V. 967767; GAVEL V's, 960 770 Lead ore
③ KNUCKLEBONE PASTURE, SD 955-7 758-778
COATNOOK V 955770 KNUCKLEBONE V 957758.
COATESWORK M. Lead ore

④ MOOR END. FOSS GILL V, 945 743; MASON V., 953 733; HAG END V., 951 727; SUN OF SOUTH V, 951 727; NORTH V., 949 727. HAG END = MIDDLEMEER M. in 1738-44. From 1857 = WHARFEDALE M. (initially = NEW PROVIDENCE M.) WHARFEDALE LEVEL Plan & section p 33. Lead ore Map p 56
STARBOTTON CUPOLA SMELT MILL SD 955 750

A. Raistrick (1973) Lead Mining in the Mid-Pennines, pp. 136-138

1" 90 SE 001 607

STEBDEN HILL, Burnsall, Yorks

See also CARDEN HILL, LANGERTON HILL, ELBOLTON HILL

KCD "F" (1952) 73 Massive fluorite in vein on SW side of Stebden Hill – same vein as on Carden Hill

McGill (1994) "...Wharfedale..." 96. Veins at 002 608, E-W, short; have "limonite" (goethite) prob. ex decomp pyrite; massive purple fluorite, galena, calcite. Working 1736

STEMPLE HUSH, WHIM & HIGH WHIM, Arkengarthdale, Yorks

See ARKENGARTHDALE MS.

1" 90 SD 85 63(47)

STOCKDALE MINE, Settle, Yorks

R. Matthews Riv. Comm (4/78). Spec → RSWB (78-110)

Old mine near Stockdale farm (SD 855 638) in which according to Raistrick (Ref?) blue smithsonite found. Explored u'ground no blue smithsonite found, but coll. pale greenish-blue banded aragonite (tested, RSWB. HCl → effery., red flame test) composed of tightly packed needles. Polishes → attractive specimens.

[Not in Raistrick "Mid-Penn" (1973)]
or "Pb Indust.... Vol I The Mines", (1975)]

STODART HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

STONES LEVEL, Arkengarthdale, Yorks

See PUNCHARD GILLS

1" 90 NY 885 035

STONESDALE MOOR MINE, Muker, Yorks

OS 6" map shows "Stonesdale Moor Lead Mine" at above map ref.

1"90 SE 061930-070930

STOPMORE RAKE, Preston under Scar, Yorks

See also COBSCAR RAKE, CHAYTOR RAKE

OS map: E-W. E Contin. of COBSCAR RAKE

NZ 8 1?

STRAFFORD, Yorks.

GeL (1858). Good jet in veins between the rocks.
[of Whitby?]

1" 93. Cent. on SE 979 901

SUFFIELD LIME QUARRY, Hackness, Yorks.

I.R. Blezard Priv Comm 11/4/72. Suffield Lime quarry in the Hackness Hills, visited on a field trip (Huddersfield Mineralog. Soc) ^ Classical fossil shell site in Hambleton Oolite series. Several small tarnished cubes found → RSWB for ident. 5mm dark brown cubes (which polish black). Goethite streak. Goethite pseudo after pyrite

1" 90 nr. SD 962 952

SUMMER LODGE Pb MINE, Grinton, Yorks

See also GRINTON MOOR M's, etc.

RJP Lamb, Pers. Comm., 6/90. Ancient tips at Summer Lodge recently bulldozed to mend the track. No sign of marcasite, but excellent x/s of goethite pseudomorphous after lit. ⋀⋀⋀, also hemimorphite

LOT et al (1995) The Grinton Mines, 80-83. Plan 81

SUN GUTTER LEVEL, Reeth, Yorks.

See ARKENGARTHDALE M'S.

1" 90 NZ 051021-054023

SUN HUSH, Marrick, Yorks

See also NORTH HUSH.

OS 6" map. ENE-WSW.

SUN HUSH, Melbecks, Yorks

See LOWNATHWAITE M's.

SUN SHAFT, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

SUN SHAFT, Melbecks, Yorks

See LOWNATHWAITE M[1]s.

SUNNYSIDE MINE, Beverley, Yorks.

See COCKHILL ~~AND~~ SUNNYSIDE MINES.

1" 90 Around NY 974 025

SURRENDER MINE, Reeth High Moor, Yorks

See also OLD GANG MINES; ARKENGARTHDALE M's.

OS 6" map shows "Surrender Lead mine" at NY 974025
On Friarfold-Forefield Rake system on the watershed between Flincher (Hard Level) Gill [OLD GANG M's] and Arkengarthdale.

KCD "F" (1952) 67. Friarfold Vein links up with the Arkengarthdale complex at Surrender mines. Fluorite [assumed from context]

1"90 NY 990 000

SURRENDER SMELTING MILL, Reeth, Yorks (I)

RP Lambe RSNOB (4/1988) Quick look - slags collected containing litharge (IR) orange-red platy; colourless long-prism rectangular x/s, IR showing (?) SO_4^{2-}, OH. - related to but not = rect x/s ex Whashton mill; pearly white compact radiating mineral with IR similar to the rectang x/s ex Whashton mill.

Further studies to 1991: NOT sulphates! Both long-prismatic & pearly x/s react with NaN_3/I_2 and their IR spectra are

nearer THIOSULPHATES than sulphates!!!!

Also bright orange transp. "hexagonal" platy material reacts similarly & has $S_2O_3^{2-}$ absorptions (though weaker) in its FTIR which is dominated by H-bonded OH, a M-O & also has a weak H_2O. XRD shows the pearly white to = the Whashton plates as suspected & to be triclinic & polysynth twinned.

The prismatic material is orthorhombic Pbcn $a = 20.02$, $b = 7.19$, $c = 7.3$ Å, & is isostr. with $BaS_2O_3 \cdot H_2O$ so is probably $PbS_2O_3 \cdot H_2O$!! [NO — is $BaS_2O_3 \cdot H_2O$]

SURRENDER SMELTING MILL, Reeth, Yorks (II)

8/91 $BaS_2O_3.H_2O$ crystals synthesised (lit.), and their FTIR = the orth. material, which is ∴ of this composition, & is not a Pb species

The tricl. species (sample from Whashton mill) on ED SEM shows only has Ba and S apart from 1st row elements such as O, & may be Ba_2SO_3 (anhyd. from its IR)

[i.e. $BaS_2O_3 . BaF_2$]

10/91 10/91 A pale yellow waxy-granular phase is $BaSO_3$, ident. with synthetic $BaSO_3$ (FTIR)

RSOB et al (1993). Min. & Pet. 47, 255-261

At NY 990 000 described above: The phases are :— PTO

Orth Ba thiosulphate monohydrate; tric. Ba thios. fluoride; tric (?) Ba sulphite; mon hydrated Ba Al trisulphide hydroxide (orange).

RSWB, A.Dyer, RPHLamb & J.I.Wilson (2001) J. Riss. Soc. 7 [2], 83-85. "gismondine - Ba, a zeolite from the weathering of slags"

7

SURSIDE MINES, Netherdale, Yorks.

W. Phillips (1823). Pyromorphite

OS gazetter. "Netherdale" not given. "Netherdale House" is at NJ 6548 in Scotland!

1" 90 SD 981-5 612-7

SWINDEN { VEINS and QUARRY or LIME WORKS, e Cracoe Linton, Yorks. (I)

See also SKELTERTON

Dunham "F" (1952) 73. "A little deep purple fluorite, associated with calcite and bitumen has been noted in a belt of WNW fractures"

RSWB, TG 4/2/62. See Field Notes, p. 229 Traces purple fluorite as joint or fracture coatings; plenty bitumen; plenty good nail-head calcite in vughs, with included & sprinkled chalcopyrite altering to green carbonate; white platy baryte; one cube iron pyrite found; limonitic coatings. Yellow rhombohedral wheat wire calcite looking rather aragonitish, in radiating masses in vughs in brown muddy-looking matrix

Peacocke Taylor Bull 25 (1964) 19-32 Uranif. collophane [apatite]

RSWB, M Russell 9/70 Blue-purple fluorite, small cubes in thin coatings on limestone particularly from newer upper level of quarry. Superb pitchy bitumen with calcite, mainly nail-head spar - a little dog-tooth. Much of the fluorite is zoned - colourless centre blue edges. With the fluorite is a little white cawky barite (fluoresces mustard-yellow in uv-sw) - the fluorite is not fluorescent)

RSWB + GR 6/80. Nail head calcite x/s to 2cm across. Pink massive calcite. A little needley malachite as alter. of chalcopy. in/on calcite. Purple fluorite - v. small x/s only.

SWINDEN, Linton e Cracoe, Yorks (II)

MC gill (1994) "...Wharfedale..." 89-92; map p 91.
8 veins on Swinden Knoll in liberties of Linton e Cracoe, largely quarried away in 9761 e 9861. Studied by Dickinson, J.M. "The Mineral Veins of Swinden Knoll" (1972), Memoirs NCMRS Vol 2, No. 2, pp 98-100. Calcite lead ore, purple fluorite; "calamine" (? smithsonite) - 39 tons produced in late 18th C. Specks galena. Malachite, v. small patches in No. 3 vein e a "large amount" in swelling in S end of No 6 vein - "crystalline"; also aragonite e "a non-crystalline iron-carbonate-silicate" in the brown calcite

1" 90 NY 911 013

SWINNERGILL MINES, Muker, Yorks.
See also BELDI HILL MINE; LOWNATHWAITE M's.

SRMRGB Ba (1915), p 43: Lead mines 2m N of Muker. gangue mostly calcite, with some baryte. Fluorite, blende, & cerussite also occur in small quantities. Occasional bodies of witherite in pockets on limestone-walls.

OS 6" map shows "Swinner Gill Lead Mines" at above loc.

RSWOB (5/70) V, 170 Ruins, big screes/dumps. Not much of interest found. galena, sphalerite, calcite, baryte, ? hemimorphite

Around SD 628 518

SYKES, Bowland Forest High, Yorks

RSWB et al III, 77-83 (12/5/63), IV, 28-29 (3/11/63), 192 (11/7/65).
Also Exhibits. Min Soc.

Series of quarries in partly mineralised limestone in the Trough of Bowland, with associated old mine workings.

Quartz crystals; baryte, often in large sheaves; purple fluorite cubes, assoc. with baryte. Galena, including octahedra; chalcopyrite vein with alteration products — malachite staining & sheaves of small azurite xls in pockets in shale. Blende; smithsonite; trace cuprite

A. Raistrick, "Pb ming in the mid-Penn's" (1973) 162-163

Vein-breccia in quarries; 3 veins worked in W. quarry, irreg. workings nr. top of quarry face. Baryte, pink & white; fluorite; galena; calamine [smithsonite], occasional Cu stains. Part of WHITWELL MINES

RSN (2001) 38, 12-14 [Bill Mason] Mineralisation, etc. [various sites]
Qtz, gal, baryte, lilac fluor x/s to 0.5 cm on ba. chalcopyr., azurite, mal, sphal, smiths. Rosas, nice aurichalcite; small cerussx/s. Botry chalced in part.

1"90 SE 053 667

TAG BALE MINE, Hebden, Yorks.

See also GROOVE GILL V.

MCGill (1994) "...Wharfedale..." 97-98; map p 98
SOUTH VEIN 053 667; poor. A trial for Pb
TAG BALE LEV. from 053 665 @ 1100 ft OD to
South V.

TANNER RAKE HUSH, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

TEESDALE Yorks (& Durham)

GeL (1858) "Mimetite"

T Bridges & B Young (1998) J R S. The "mim" is prob. pyromorphite. All B.Y's samples from area near P-end member

TENTER HILL, Bramham, Yorks.

See BRAMHAM.

1" 90 Cent. on SD 984 909

THACKTHWAITE BECK, Casperby cum Thoresby, Yorks

See also WET GROOVES M.

1" 84 NY 84 28

THISTLE GREEN, Lunedale, Yorks.

See also BLACK ARK.

NCD (1945) 313 On Cronkley Fell, 1m SSE of Widdybank Fm. An E-W baryte vein with some galena seen on dumps of a shaft. Trials on a small NNE vein further N show baryte, a little galena, traces fluorite.

SE 38 40

THORNER, Leeds, Yorks.

TMH (1868), 71. Magnesian Lim. Dolomite xls.

J. Hartley, Trans Leeds Geol Assoc 7 100? (1959) Goethite.
(very fine, tabular, up to 1cm x 1mm, in calcite veins in Millstone Grit sandstone, in disused quarry at foot of Church Hill, 150 yds NNE of Thorner church, Grid Ref. 380407).

1" 90

THRESHFIELD, Yorks.

See also SKYTHORNS.

McGill (1994) "... Wharfedale ..." 84-85. Has coalfield.

Pb vein tried on THRESHFIELD MALHAM MOOR at 969 657 in 1746.

A weak vein at THRESHFIELD PASTURE at N976 631 tried → 0.1 ton Pb.

1" 90 NZ 083 039

THRINGILL HILL, New Forest. Yorks.

See also HOLGATE PASTURE, DICKY EDGE

OS 6" map: "Old Lead mine" at 083 039

TODMORDEN, Yorks.

See CATHOLES CLOUGH; LEAD MINE CLOUGH;

1" III SK 291 798

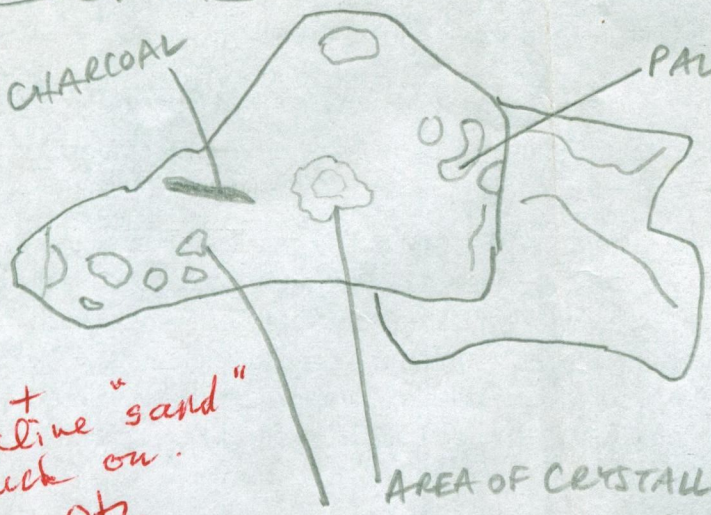
TOTLEY BOLE, Totley, Yorks.

Bole Hill, 1" OS, at 291 800, nr. DERBS border

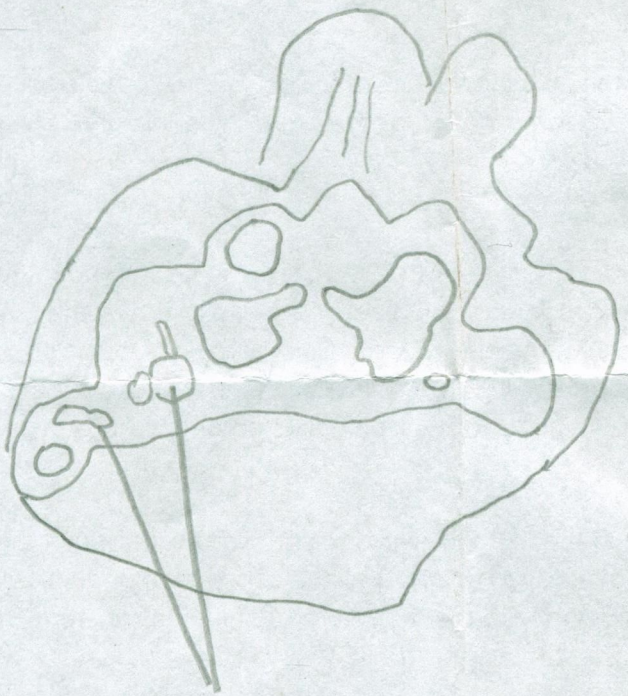
2Spec → RSMOB from R. Lamb, 5/03. On one
c'less laths FTIR: barium thiosulphate hydrate;
also pale yellow thin micaceous plates
(one tiny patch, not enough to sample).
C'less thamsp. xline crust on other
sample FTIR = calcite.
RHPL: is at SK 291 798

SLAGS FROM TOTLEY BOLE

1.



2.



Bole Hill
out on 29, 80.

pH 7.8 Cay?
Yorks

ANY CHANCE OF IDENTIFYING SOME OF THESE??

BEST WISHES,

Richard & Jennie

1" 95 SD 96 46

TOW TOP, Lothersdale, Yorks.

JR Earp et al "Geol of Clith & Nels" (1961)

Baryte vein at 963 463 near Tow Top, also old trials in line near 967 472

GS map shows N-S vein at 963 463

SE 06 61

TROLLER'S GILL Yorks.

KCD (1974) 299. Vein dominated by fluorite, & free from ~~barite~~ barium minerals

KCD (1952) "Fluorspar" 73 "Trollers Gill" in index, but "Trotter's Gill" in text. Skyreholme mines area.
1"OS shows "TROLLERS GILL" at SE 06 61

TROTTER'S GILL Yorks.

See TROLLERS GILL

1" 99 TA 38, 39

TUNSTALL, N. Humberside, Yorks and HILSTON

(1961). From TUNSTALL ~3132 beach, septaria, which on breaking open give excellent rhombohedral calcite crystals to ~1cm, occasional baryte See 91-145.

P. & J. Roydhouse (1993) UK JMM 13, 30. From HILSTON beaches, Holderness [~30 33], calcite, c'less to brown in various habits, in large septarian nodules with, rarely, large transparent smoky baryte xls.

TURF MOOR HUSH, LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

1" 89 NY6400 — 6402

ULLDALE, N of Sedbergh, Yorks

"Mineral Paradise" at Bakewell Show (2011) RSW311-25
Azurite, micro-xls on quartz (small xls) in breccia, from ULLDALE COPPER TRIAL, nr sedbergh, N. Yorks. [Ulldale is a N–S river valley on map. No trials etc marked]

UNDEREDGE LEVEL, Arkengarthdale, Yorks.

See ARKENGARTHDALE M's.

VICTORIA LEVEL, Melbecks (Swaledale), Yorks

See OLD GANG MINES

1" 95 SD Around 755-765, 502-7

VICTORIA MINE, Bolton-by-Bowland, Yorks.

See also PAT HILL, St HUBERT MINE,
NOT = VICTORIA LEVEL, Reeth [qv]

OS 6" map shows "Victoria mine" at above loc.

GS 6" map ~~68~~ shows a series of four parallel NW-SE veins at site, marked "Ba, Pb".

GS 1" map 68 shows one such vein.

JR Earp et al "Geol of Clitheroe & Nelson" (1961)

At 761504. Galena m small SE veins

1"90

Castle Bolton SD 998 944 ~~SE~~ 003 933$_5$

VIRGIN (LEAD) MINE, (East Bolton Moor) Yorks SE ~~00~~ 0093

eLEVEL

SRMRGB II, Ba, (1915), 42. Virgin Mine, Wensleydale, at 54° 20' 10", 1° 59' 50". On dumps: witherite; fibrous baryte; calcite in "large, well-grown xls."

OS 6" map: VIRGIN Pb MINE (NNW-SSE), from SD 998 944 to SE 003 933$_5$, with HILL TOP SH. at SD 998 944; DRESSING SH. (Pb), SD 998 942; VIRGIN LEVEL (Pb) SE 003$_0$ 933$_5$

A. Raistrick (1975) "The lead indust. of Wens'd. & Swaled. Vol I. The Mines", p86 Good witherite at Virgin

level mouth, from a flat.

KCD, (1974). Witherite

B Young et al (1992) Proc Yorks Geol Soc. 125-7

93M/2147

Fraipontite, dumps on VIRGIN MOSS VEIN dull apple- to pale-green up to 5 cm in "limonite" gozzan.

1" 84 NZ 08 05

WAITGATE GILL (RAKE BECK) Gayles, Yorks

See also HOLGATE PASTURE, NEWSHAM MOOR, LONA GREEN.

OS 6" map. "Old shafts" at 086 050$_5$, 0825 052$_5$.

1" 90 SE 022932-025 934

WALKER WIFE RAKE, Castle Bolton, Yorks

OS map. NE-SW

1"90 SD 944 966

WALLS Pb MINE, Muker, Yorks

WASHY GREEN LEVEL, Arkengarthdale, Yorks

See ARKENGARTHDALE M's.

1"90 NZ 044 023

WELLINGTON BARF END MINE, Marrick, Yorks

See also HIND RAKE, etc., CAT SH.

OS 6" map. Lead mine, on Hind Rake

1"90 SE ~~NE~~ 055958-061961

WELLINGTON VEIN, Ellerton Abbey, Yorks

OS map: WSW–ENE

WEST BURTON, (Wensleydale), Yorks.

See SEATA MINE

1" 90 SD 860 733

WEST CLOSE VEIN, Halton Gill, Yorks.

See also HESLEDEN BANK, POTTS BECK.

McGill (1994) "The Wharfedale Mines", 72. Lead
trial in 1753

1" 90 SD 98 90

WET GROOVES MINES, Carperby, Yorks (I)

Dunham "F" (1952), 68. Fluorite [v. infra]

Raymers Cat. (1960) "WEST GROOVES MINE, Carderway": Baryte

KCD "F" (1952) 68: Three main ore-bearing locs: (i) Thackthwaite Gill [?= Thackthwaite Beck, SD 982-6 909] (ii) Wet Grooves [986 903 ?] and (iii) Dister Force Vein. All have fluorite, sphalerite.

(i) Thackthwaite gill. NW fault crossing mouth of gill ends N against a small E-W vein near Eller Sink. In L'st e gut; small workings, with baryte, calcite, fluorite, galena, blende.

At Wet Grooves is a disturbed △ of ground, wrought from many small sh's & levels. A certain amount of lead ore got from at least 2 old adits below Haw Bank - minerals on dumps similar to those at Wet Grooves

OS 2½" map shows "Mine (dis.)" at 986903, "Old shafts" around 981/906 and 977/908-11

T. Ellis Priv Comm. 9/75 Got in via shaft & very wet level; found a cavity complex with very fine blue-white baryte x/s (v. like old Frizington specs) on colourless to pale yellow fluorite cubes and calcite. Good aurichalcite on calcite (v. like Derbs!).

WET GROOVES MINES, Carperby, Yorks (II)

75-176

H. Winstanley 9/76 Spec. to RSWB. Baryte, colourless xls, on sphalerite oxidising to smithsonite & minor pearly white radiating near hydrozincite [IR], traces cinnabar [Hg on heating]. Specimen from dump from one of the higher holes in the cliff face.

H. Winstanley & R. Matthews 8/78 Spec → RSWB 78-228 Baryte, nice cluster of large crystals, to

1½ x 1¼"  on calcite; heavily iron oxide coated which on removal gave bright surfaces on the baryte. From long "tunnely vugh" underground; reached from 986 902

A. Raistrick (1975) "The Pb Industry of... Vol I..." p 85

WET GROVES. Rich vein; large open cuts & small caverns. Dumps have good baryte & fluorite, some hydrozincite

RSWB & JIW 4/79. Many holes in face of Ivy Scar, also dumps. Much baryte some vg clear colourless, Frizington habit. Much calcite - nail-head; Fluorite c'less → pale yellow. galena, sphalerite, limonite, aurich alcite Smithsonite

WET GROOVES MINES, Carperby, Yorks (III)

RSWB & JIW 5/79 As above + witherite massive radiating, one patch with part-spheres Ø 3" radius, with calcite x/s on the outside, the calcite of the usual "nail-head" habit for the locality "Behind" the witherite, cavities with relicts of sphalerite with smithsonite and chalcite, cinnabar.

B. Young (1957) Trans. Leeds. Geol. Assoc. 11 [2], 1-7

Aurichalcite on white calcite scalenohedra

Wetgrooves Mine, Wensleydale, Yorkshire [Grid Ref: SD 987902] - 13 April 1996 RSNC 1996 29

NWB, Leader: Mike Rothwell,

Reporter: Ken Savage

It was with foreboding that we travelled along the motorway through falling snow. However, as we turned off the motorway it stopped snowing and started to brighten up. We all met at the car park and having chatted for a while we donned our gear and split into two groups, those going underground and those collecting on the surface.

At last we could put it off no longer, that short steep walk up through the trees. At the top there is a barbed wire fence - much jocularity as yours truly got snagged where it hurts most! We entered the main adit and then down the corkscrew to the top of the shaft. After securing the rope and putting a plank across so we didn't have to jump, we climbed down the shaft. Who said there is a drought? Well he hasn't been down the shaft! Quite entertaining, what!

The group then split up to go to various collecting areas. Specimens of calcite, galena, baryte, fluorite, hemimorphite, aurichalcite and smithsonite were collected. Jim Robinson collected a superb aurichalcite off the floor! Eventually we had to pack our bags. Now we realised how heavy baryte is as we proceeded back up the shaft, and water, corkscrew and on and out into fresh air. Group photos of the intrepid explorers were taken and the mine resealed.

Those staying on the surface collected some nice fluorite, baryte and aurichalcite.

1" 85 NZ 144 055

WHASHTON SMELT MILL, Whashton, Yorks

See also FELDOM MINE (I)

R. Lamb (Priv Comm 9/83) At 144 055 by Coppermill Bridge. Cu smelting mill. Cu slags have lumps cuprite etc. Also Cu metal acc. to ~~Raistrick~~.

A. Raistrick (1975) "The Lead Indust. of Wens. & Swaledale Vol. I The Mines" 96-8. Mill known as "Washton High Mill" in 1675. Working in 1728 smelting copper pyrite from mine on Feldom Moor 3 mi NW of Richmond — long vein, worked by bell-pits. Extensive dumps at mill, &

slags w large lumps Cu metal.

RPL, RSWB (1988). Mostly grassed over but some interesting slags found; containing cuprite; copper (0); colourless rectangular plates with curious IR spectrum (?) SO_4^{2-}, OH, Pb? (88-38)

brochantite (?); pale green radiating malachite (?) 1 spec (88-37) with emer. green radiating thick rectangular blades; 1 spec (88-39) with a connellite-like blue radiating mineral and blue-green micro x/s.

5/91 The colourless plates efferv. □

WHASHTON SMELT MILL, Whashton, Yorks (II)

with NaN_3/I_2 e their IR spec fits THIOSULPHATE better than SO_4^{2-} + a little H_2O

Possible = PbS_2O_3 but is not ident in IR with a synth PbS_2O_3 □ prep 5/91 (RSWOB) ex PbAc + $Na_2S_2O_3$ + dil HNO_3.

An SEM ED scan (Leeds Univ) suggests Ba, S., to prob. a tric barium thiosulphate. Colourless striated prismatic xls coll by RJPL, 1991 give FTIR (10/7/91) = barium thiosulphate monohydrate, orth..

RSWOB et al (1993) Min. & Pet. 47 255-261
At NZ 144 055. Orth Ba thios. monhyd.

tric. Ba thios fluoride.

RSWB, A. Dyer, RPH Lamb & J.W. Wilson (2001), J. Russ Soc 7 [2], 83-85. "Gismondine-Ba, a zeolite from the weathering of slags"

R. Lamb (Priv comm 9/06) visited early '06, "found all five published slag minerals" [ie Ba thios dihydrate, Ba thios fluoride; Ba sulphite; Ba Al trisulphide hydroxide; Gismondine-Ba]

1" 90 SD ~~984~~ 984 959 → 996 955

WHITASIDE Pb MINE, Grinton Yorks

See also GRINTON MOOR Mls etc.

OS map: Note "MORLEY'S FOLLY (disused) at 996 955.

RSN (2000) 36, 24-5. SD 986 956. Visit. [B. Young]
On ~ NW-SE Pb vein Baryte abundant mostly cavernous 2½ after one or more 1½ $BaCO_3$ mins. Pure radiating x'line witherite; calcite, galena, aragonite. Hemimorphite, well x'l'd c'less but Fe-stained, common. Some mammill. smithsonite. Traces aurichalcite. In one place well formed goeth ps-spear-shaped

marcasite x/s. Some unusual vivid orange smithsonite noted on stroll along vein opencuts & dumps to the watershed with Wensleydale.

LOT et al (1995) The Grinton Mines, 72-79. Plans, pp 74-5 and 78-9.

1" 86, 93 NZ 8911

WHITBY, Yorks.

TMH (1868), 71. Lias Shale. Alum; bitumen; jet; naphtha; melanterite; pyrite

G+L (1858). Melanterite in shale. Flexible quartz near Whitby, according to W. Phillips. Common chalcedony. Jet: the richest Yorkshire workings are about 3 mls S of Whitby, on the direct road to Scarboro'. Alum in shale near Whitby (in the Lias), extensively worked. (Ravenscar? 9801)

OS 2½" NZ 81, shows "Old Jet Workings" at

NZ 855 146 at Keldhowe Point, and at NZ 831 158 at Kettleness. Just W of Kettleness it shows "Old Mine" at 8290 1555 beside Cat Beck, and "Mines (Dis.)" and "Old Shaft" with fairly big dumps, at 823 152

F. Gadlon (5/73). Visited cottage in Kettleness. Given good piece of jet from seam at foot of cliff, told alum shale worked to NE & that "Old Mine" might be for lead.

1" 84 NZ 03 07

WHITE FELL, Hope, Yorks.

OS 6" map shows "Old Mines (Pb)" near 039 079
also, to S, centred on 034 070 (BUT
immed. to the SE of these are Old Pits (coal))

WHITE GANG Pb VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE M's

1" 95 Cent. on SD 658 550

WHITENDALE MINE, Bowland For. High, Yorks

See also BRENNAND M.

A. Raistrick, "Pb ming in mid-Penn's" (1973) 167-8; map, p 165. Part of WHITWELL MINES. Forms E part of BRENNAND sett. Veins named on map: BLENDE V., WILLIAM V., RAKE V., Gt. MEADOW V., WHITENDALE NS V. Many ancient overgrown bell-pits, no adits or opencasts. 17th century workings? Galena, blende. [Other minerals not

distinguished from Brennand in account]

1" 90

Threshfield SD 974 654 – 971 652

WHITWAY VEIN, Kilnsey, Yorks.

See also KILNSEY MOOR.

McGill (1994) "... Wharfedale..." p 82. WHITWAY MINE, [Pb assumed]
in Chapel House Wood. Level at 971 653
2 meers granted 1774.

WHITWELL MINES, Bowland, SD 65 Yorks.

A. Raistrick "Pb mining in Mid-Pennines" (1973) 168

Inspection area including SYKES, ASHNOTT & BRENNAND mines.

WIDE Pb SHAFT, Preston under Scar, Yorks.

See CHAYTOR RAKE

SK 29 248 957-8

WIG-TWIZLE MINE, Bolterstone Chapel, Yorks.

Farey, (1811): nr. Bolterstone Chapel NW of Sheffield, Yorks, in grit (perhaps alluvial). Lead; Black Jack [blende]; copper.

RSWB 1/4/62 Field Reps II 27-28. Little trace now remains. Some apparent workings possibly on a vein NNE-SSW nr 248 957-8. Overgrown, & no material exposed.

1" 90 SE 0575 9555

WIN Pb SHAFT, Ellerton Abbey, Yorks.

WINDEGG LEVELS, Arkengarthdale, Yorks

See ARKENGARTHDALE MS.

WINDEGG VEIN, Arkengarthdale, Yorks

See ARKENGARTHDALE Ms

1" 90 SE 009 948

WOOD POT Pb LEVEL, Castle Bolton, Yorks.

1" 90 SD 984 938 - 996 938

WOODALE Pb MINE, Carperby cum Thoresby, Yorks.

OS map. From 984 938 in Carperby-cum-Thoresby parish to 996 938 ("WOODALE STRINGS") - a hush? - in Castle Bolton pH

WOODWARD LEVEL, Melbecks, Yorks.

See LOWNATHWAITE M[l]s

1"84 NY 90 [illegible] 280?

WYNCH BRIDGE MINE, Holwick, Yorks

KCD (1948), 299. Zn. On banks of the Tees between Wynch Bridge & Scoberty Bridge 1 – 1½ mls SE of Dirt Pit Farm. Small siderite - sphalerite deposits - the feeding fissures are exposed in the Whin Sill in the river bed.

WYVILL'S LEVEL, Stainton, Yorks

See STAINTON Pb MINE

SD 79 70

YORDAS CAVE, nr. Ingleton, Yorks.

G&L (1858) Calcite

1" 97 SE 55, 65
54, 64

YORK, Yorks.

G & L (1858) Jasper "near York".

ME Smith (1994) J. Russ. Soc. 5 119-120
Vivianite from 2 sites in York centre, at Lendal Bridge (SE 601 519) & at Jorvik (SE 601 517); on organic material from 9th–11th Centuries.

YORK AND LANCASTER MINES, Rimington, Yorks.

See SKELERON MINES.

1"84 NY 837 271

YORKSHIRE SILVERBAND MINE, Lunedale, Yorks.

KCD(1948), 312. Pb. On Cronkley Fell E of Merrygill. Hushed in the headwaters of Crookus Gill. Main L. starts from hush @ 1760' OD & runs 900' SE on Silverband V. Other small veins also. galena, some baryte.

T. Bridges & B. Young (1998) J Russ. S. NY 8345 2736 Pyromorphite, x-line-botry crusts, sparingly.

RSN ('06) 48, 15-16. "Mineral in nearly only 1 y." Ankerite ox to limonite [sic!], much baryte, calcite, aragonite, galena, some pyromorphite. Complex series of opencasts & scattered shallow dumps.

ACOMB, Northumb.

MISC.