

WARWKS.

G & L (1858)
the gypsum in red marl near
surface

A. Hall & W. J. Kennedy. Proc Roy Soc (1967) B168, 377
Aragonite & calcite in fossils; locs. cited.

Aragonite

Warwicks

Warwickshire

Aurichalcite

Warwicks.

Judkins Q'y

Azurite.

Warwicks

Judkins Q

BARYTE

WARWICKS

Hartshill Hayes

Judkins Q

Bornite

Warwick

Judkins Q

CALCITE

WARWICKS

Hartshill Hayes

Warwickshire

Little Compton

Ludkins Q

Cerussite

Warwicksh.

Judkins Q

Chalcocite

Warwicks

Judkins Q

Chalcopyrite

Judkins Q

Warwicks

Cobaltite

Warren

Judkins Q (?) M

Copper, native

Warwick

Judkins Q'y

Djurleik

Watu

Judkins Q

Epidote

Warwick

Judkins Quarry

geerite

Waru

Ludkins Q (u)

Gypsum

Warwickshire

Warwicks

Haematite

Warwicks,

Judkins Q

Hemimorphite

Warwicks

Judkins Quarry

Hydrophilitite $\text{CaCe}_2(!)$ Warwicks

Guy's Cliffe

"I daite"

Warw

Judkins Q

Malachite

Wamotcks

Judkins Q

Manganese minerals, misc

Warwicks

Wash Lane (Manganese ore)

Hartshill Hayes

Mancetter M (Mn ore)

MANGANITE

WARWICKS

Hartshill Hayes

Millerite

Warwick

Newdigate Coll'y

Mottaramite

Warwicks

Judkins Q

PSILOMELANE

WARWICKS

Hartshill_mHayes

Pynite

Warwicks

Ryton-on-Dunsmore

PYROLUSITE

WARWICKS

Hartshill Hayes

RHODOCHROSITE

WARWICKS

Hartshill Hayes

Spessartine

Warw.

Mancetter (in rock)

Sphalerite
Juddkins Q

Warwicks

Spionkopite

Judkins Q

Warw

Tetrahedrite-tennantite

Warwick

Judkins Q

" TiO_2 "

Warw

Judkins Q. (u-)

Uranium minerals, unspec.

Warwick

Ryton-on-Denismore

Vanadinite

Warrocks

Judkins Q

VARVICITE

WARWICKS

Hartshill Hayes

Wooldridge

Warwick

"Jenkins @ Warwick"

Yarrowite

Wearw

Judkins Q

1"132
GUY'S CLIFFE, Warwick, ^{291 669} Warwicks.

~ 1 ml N of Warwick centre.

Dana (6th ed.) (1892); p161 (1920 edn)

Hydrophilite... "at Guy's Cliffe,
Warwickshire, as an impure slimy
exudation on sandstone"

~~Not in as gaz.~~

Hydrophilite is CaCl₂ [?]

6" (eGS) Wamoks X NE; Leics X LI NE; 1" 132 ~~132~~ 82 ~~82~~ SP 321949-324944
HARTSHILL HAYES Hartshill. Warwickshire.

See also WASH LANE, MANCETTER Mn MINE

Near Nuneaton ^{by} "Hartshill Hayes" is a wood immed. NW of Hartshill vill.

SRMRGB "Mn" (1916) p. 55. Some Mn ore worked many years ago.
Detached pieces 1-60 lbs embedded in red clay, 1-8' down.
Several old pits marked on 6" 63 SW. All on outcrop of the
Cambrian Stockingford shales. See S. Parkes, Trans. Geol. Soc. Series 2,
vol i (1824), p. 168; and Geol. of Warwks. Coal Field (Mem. Geol. Surv.)
(1859), p. 9.

Dana, p. 278 "Hartshill, warwks: Botryoidal rhodochrosite."

TMH (1868), 69. Hartshill, Atherstone. Coal Measures. Rhodochrosite;
manganite; psilomelane; pyrolusite; varvicite.
GeL (1858) 293. Botryoidal "diallogite" (=rhodochrosite) at Hartshill

6" GS Wauwks XNE shows "Old manganese workings in red shale
[Stockingford Shales, Cambrian] at 321949-324944

PSWB 26/7/62. Vol II, p. 83. Wandered all over Hartsull
Hayes - found nothing in way of Mn minerals.
In dumps of quarry at 323947, traces calcite &
baryte, both massive.

GeL (1858) Pyrolusite, small xls; & var. varvicite in
considerable masses. Manganite, lamellar
& compact; psilomelane.

G Mus: Varvicite on altered manganite

1" 132

SP 346 930

JUDKINS QUARRY, Nuneaton, Warwicks (I)

21st April 1989 Judkins Quarry, Nuneaton, Warks.

This was an interesting visit for the dozen or so members as a rock fall had taken place in the area of the curious copper mineralization that had been found on previous visits. (the material collected on these visits appears to be chalcopyrite-bornite pseudomorphing chalcocite?, mainly in a peculiar acicular form, but with some other more chalcocite-like crystal forms being present). On this occasion only a few samples of the acicular material were found but the debris below the fall contained much more of what appeared to be quite recognisable chalcocite and also bornite pseudomorphing chalcocite. This was in both thin 'hexagonal' plates and also in more substantial (4-5mm) dark blue-grey 'hexagonal' prisms. A relatively easy excursion a few feet up the quarry face brought more of this material within reach and samples were distributed among those present.

It is worth noting that this area has produced an unusual, and possibly new, secondary copper mineral. On a subsequent visit Jim Wooldridge and Roy Starkey found some very small pale blue-green scorodite-like crystals that have been shown to be a calcium copper phosphate (XRD, John Faithfull). Specimens with similar XRD characteristics, but a different crystal form (prismatic) have also been found on the main dumps at Roughtongill Mine, Caldbeck Fells, by members of the Micromount Society. Further work is in progress to fully characterise this material and this will no doubt be reported in more detail at some future date, but, in the meantime, check your own samples from both localities.

W Cummins (1969). Mercian Geol 3 89-92
Malachite

F. Ince, R. Starkey & J. Wooldridge (1992) UK Journ of Mines

Minerals 10, 8-13. "The Geology & Mining of Ludkins Q'y, Warwicksh."

Azurite (<0.5 mm) rare, in W part. Baryte (0.5-1 mm xls & cockscomb → 1 cm). Bornite, small amounts. Calcite common; scaleno. to 1.5 cm. Crussite → 3 mm sparingly. Chalcoite incl ^{infr} crystals; Chalcopyrite, good lvs (e clusters) → 1 cm e in sheaves of needles; Galena, incl. cubo-oct some alt → mott. Haematite, earthy to massive. Malachite → 2 mm. Mottramite, yell → oliv-gr → brown crusts & ol-gr rounded xls < 0.2 mm relatively common, ass. w. calcite & vanad. Sphalerite v. pale, nr Zn end member, xls < 0.2 mm, aggs → 4 mm. Tet'hed-tennantite, lustrous black xls < 0.2 mm. Vanadinite, c'less → pale brown dull → lustrous hex, sometimes "barrels" → 0.5 mm, ass. w. mott. Unk Cu, Co, Na Phos hydride < 0.2 mm sparkling transp. blue-green xls on Ba, Ca & Cu sulfides. Woolridgeite, new species

JUDKINS QUARRY, Nuneaton, Warwicks (II)

RSN 23 (1992)

Judkins Quarry, Nuneaton, Warks.
Sunday 5th April 1992

Bearing in mind the excesses of the previous evening, a surprisingly alert group of 21 (plus a couple of late-comers) congregated at the entrance. After a motorised Conga into, and then out of the quarry (to avoid being locked in!), Roy (Starkey) produced some large scale maps of the area and the quarry to remind us all of the local geology. There followed a brief description and discussion of the mineralogy and we walked in to see what had changed since our last visit. Not a lot as it turned out, apart from an extension to the lowest bench and a bit more encroachment from the rubbish tip.

Some feverish activity over the next 4-5 hours produced nearly all the expected minerals, al-

though no vanadinite or the incompletely analysed calcium-copper-phosphate were reported.

The area that has produced most of the curious copper mineralisation afforded more of the same, with the Wallaces and Simon (Howell) appearing to do rather well (have you unwrapped it yet Simon?). The acicular chalcopyrite was reasonably abundant as was the bornite ps. chalcocite; various blues and greens implied that some time with the microscope ought to be worth while. On the same bench Roy, and others, were working an area to the south of the copper mineralisation that produced some nice small cream to pink cockscomb baryte with what appeared to be sphalerite. Some of the latter has a distinctly bluish surface coating (not previously seen?, the sphalerite here is usually quite lustrous and pale brown to almost black) and there are some very small (< 1mm) sprays of reddish dendritic material (native copper?). Also on the same bench, but to the north of the copper mineralisation area, some malachite was unearthed and the eagle-eyed Max turned up a little azurite.

On the bench below, the area that has produced galena, cerussite, mottramite and mottramite ps. galena still afforded enough for everyone who passed by. As on previous occasions, some of the forms of the galena were quite strange, irregular hexagonal plates and 'folded foil', as well as small cubo-octahedral crystals (usually encrusted with cerussite).

The rigours of the weekend eventually took their toll and the party gradually dispersed with the intention of joining the Southern Branch and the AGM Roadshow next year.

Frank Ince

25th July 1992

Seven stalwarts congregated at the works entrance after the mornings visit to Croft Quarry and we made our way to the quarry entrance. The newcomers were given a brief description of the local geology and mineralogy of the quarry and then let loose on the rock. The majority of the expected minerals were found (see AGM report), although there were no reports of azurite or vanadinite.

Of particular note was some of the baryte-sphalerite from the same bench as the copper mineralisation; a few hemispherical aggregates (up to 1 cm) of small pink baryte crystals with yellowish-brown sphalerite on scalenohedral calcite were found

(again some of the sphalerite had a distinct blueish coating). The same area also produced some quite well formed bright chalcopyrite crystals.

As expected an area on the next bench down produced some small cubo-octahedral galena crystals, the majority of these were either covered with small cerussite crystals or replaced by yellow mottramite.

The lowest level and the upper levels at the north end of the quarry have been extended but, more significantly, the land-fill operation is moving ever closer to the mineralised areas. Unfortunately the interesting exposures will be buried in rubbish in the not too distant future. It is to be hoped that enough material from this important mineralogical and geological site will have been rescued and conserved for future generations.

Frank Ince

JUDKINS QUARRY, Nuneaton, Warwicks (III)

8 August 1993 Judkins Quarry, Nuneaton,
Warwicks. RSN (1994) 24

Given the number of times we (and others) have visited Judkins over the last few years, it was difficult to imagine that anything reasonable would be left. This was not the case and some good specimens of the acicular chalcopyrite/bornite (ps chalcocite?) up to 1cm were extracted, following an intensive rock removing exercise. Some of this was coated with 'blues and greens' but nothing extraordinary emerged when studied under the microscope. It has to be said that this area begins to

look a bit unstable again and we left it well alone and went off to search for other goodies. On the same bench as the copper mineralisation, Mike and Jeanette Kinder were finding some nice pale yellow to brown hemispherical aggregates of sphalerite crystals with white to pink cockscomb baryte and colourless to pale pink calcite. Some of these specimens also possessed quite bright chalcopyrite and some small bright cubo-octahedral galena crystals. A few plates of pale pink scalenohedral calcite crystals were also unearthed, and the odd passable specimen of malachite was found (when will the azurite turn up again!). On a lower bench some more of the cerussite-covered galena with crusts of yellow-brown mottramite and also some yellow mottramite ps. galena were collected. Now this area really looked (and sounded!) unstable and we did little to change the topography here; like us you should treat these rather loose blocks with caution. All in all, it was a good day and there was enough material for all those present, which was just as well because some of our party of 8 had made the trek from the London area.

Judkins Quarry, Nuneaton, Warwickshire
[Grid ref: SP 352 927] - 7 August 1994
CB, Leader: Neil Hubbard RSN(95)26

It was quite sad to think that this could be the last visit to the quarry as it is due to close in 1995. We made our way to the area which produces the copper sulphides, stopping to collect a few pieces of baryte and sphalerite on the way. A few good specimens of chalcopyrite after acicular chalcocite were collected after a lot of hard work. Apart from this, a few poor specimens of malachite were found before we reached the area which was currently being worked. There had been a

recent blast in a diorite intrusion revealing bright green crusts of epidote coating joints, although it proved difficult to collect specimens. From here we moved to the bench below, where it was still possible to collect thin coatings of motttramite and small galena crystals altering to cerussite. Further along this face a pile of crushed stone was piled up against the face allowed access high up to where good specimens of baryte with sphalerite and minor chalcopyrite could be collected along with a few pieces of hemimorphite and traces of what looked like aurichalcite. From here we made the long trek out of the quarry after what had been quite a rewarding trip.

Since the meeting, good news has been received that the closure date for Judkins Quarry has been set back to 1999.

Hawthorne, F.C. et al

(1999) Min Mag 63 [1] 13-16

Wooldridgeite, $\text{Na}_2\text{CaCu}_2(\text{PO}_3)_2(\text{H}_2\text{O})_{10} \dots$ " orth

Transp bl-green equant rhombic ~~ch'pyr~~ xls assoc
w. calcite ch'pyr, bornite, baryte.

JUDKINS Qu'y, Nuneaton, Warwicks. (IV)

Judkin's Quarry, Nuneaton, Warks

[Grid Ref: SP 352 927] - 14 May 1995

CB, Leader: Phil Jackman RSN(95)27

just to underline the fact, *no material taken from Judkin's should be sold*. We go into the quarry on the strict understanding that this is the rule.

A full suite of the minerals to be found at Judkin's was in fact located with two exceptional additional occurrences. Below the bench where sphalerite and baryte have been known for some time Neil Hubbard had on a previous visit found some hemimorphite which although small was 'quite nice'. Some judicious use of elbow grease by Neil and George Fletcher brought out two very 'nice' specimens of hemimorphite which must each have had about six square inches coated with sheaves and aggregates. Further exploration brought some shows of aurichalcite and I was then lucky enough to break into a small vug which yielded the best Midlands aurichalcite that I have seen (not that that necessarily means that it was any good!). I was however encouraged in my belief when Neil offered to exchange half of his hemimorphite for half of my aurichalcite, so a deal was struck.

RSN(1996)29, 19. [Tap 9 12/5/96]

Calcite, sphalerite, hemimorph,
aurichalcite, Epidote

R. Ixer et al (2005) UKJMM 26, 43-51

Petrology, sulphide-calcic mineralis'n.
Polished sections show micro-minerals
of sulphide-type eg bornite, chalcopyr,
"idaite", tetrahedrite, cobaltite (?),
geerite, djurite, spionkopite, yarrowite,
copper, "TiO₂", haematite.

1" 144

SP 26 30

LITTLE COMPTON, Warwicks.

F. Ince, Priv Comm (11/91) Calcite, joint
face coatings, in quarry at Little
Compton nr. Moreton-in-the-Marsh.

1" 144 shows quarries at:

SP 2629

SP 2730 (actually just in Oxfordshire)

1" 132

SP ~ 31 96

MANCETTER Mn MINE, Mancetter, Warw.
See also HARTSHILL HEYES etc.

Russ Soc Newsl (2008) 52, 13. F. Ince
Is "The Cave" at Purley Chase.

PURLEY Q has spessartine lamprophyre rock

1" 132

SP 3

8

NEWDIGATE COLLIERY, Bedworth, Warwick.

D. Green et al (1993) UKJMM 12, 22. Quoting
Walker (1985) : millite from
Newdigate coll'y, Bedworth, Warwick.

RYTON-ON-DUNSMORE, Warwicks.

CF. Davidson & DRA Ponsford, Mining Mag. (1954) 91,
265 (MA 12 582).

In a bore hole at
Ryton, Warwicksh., a thin bed of pyritiferous
coal containing above-average uranium.

WASH LANE 1" 132 6" 63 SW ~~SP~~ 35 92y
see also HARTSHILL HAYES, Hartshill. ~~PH~~ Nuneaton, Warwickshire

SRMRGB "Mn" (1916) p. 55: Some Mn ore worked many years ago at W end of Wash Lane, near Nuneaton. Detached pieces of 1-60 lbs embedded in red clay 1-8' down. Several old pits marked on 6" 63 SW. All on outcrop of the Cambrian Stockingford Shales. See S. Parkes, Trans. Geol. Soc. Series 2, vol i (1824), p. 168; and Geol. of Warwicksh. Coal Field (Mem. Geol. Surv.) (1859), p. 9.

6" 65 Warwick XSE shows no sign of Mn workings, and no lane, however "Wash Lane Farm" is shown at 351921 and "Wash Lane Bridge" at 351917