

SUSSEX

GEL (1858) Amber, occasionally on the coast.
Hepatic pyrite, in reniform concretions
in chalk & marls.

Rayners Cat. (1960) Botryoidal siderite

A Hall & WJ Kennedy, Proc Roy Soc (1967) B168, 377:
Aragonite, calcite, quartz, pyrite in
fossils; locs cited.

Allophane

Sussex

Clifton Hill

Newhaven (nearish to allophane)

Falmer

Hove

ALUMINITE var. Websterite

SUSSEX

Brighton

Hove

Newhaven

Anhydrite

Sussex

Mountfield mine

Battle

Aragonte

Sussex

Sussex

Basaluminite

Sussex

Clifton Hill

Newhaven

Falmer

Telscombe

Bayenite

Sussex

New Haven
Clifton Hill (?)
Hobe.

Bituminous minerals, misc.

LIGNITE

SUSSEX

Bexhill, Hastings (lignite)

Newick Old Park, Uckfield (lignite)

Waldron (lignite)

Sussex (amber)

Newhaven (lignite)

CALCITE

SUSSEX

Alfriston
Beachy Head
Hamsey
Plumpton

Sussex

Cuckmere Haven

CELESTITE

SUSSEX

Mountfield mine

10 silica
CHALCEDONY

SUSSEX

Houghton

"Collyrite" [?=allophane + gibbsite] Sussex

Hove
Clifton Hill

Diaspore

Sussex

Clifton Hill

FULLER'S EARTH

SUSSEX

Petworth
Tillington

Gibbsite

Sussex

Newhaven
Clifton Hill
Falmer
Telscombe
Hove(?)

Glaucoumte

Sussex

Lewes

"Limonite" [= Gaethite]

Sussex

Battle. (brown ironstone)

Newhaven ("brown Fe oxides")

GYPSUM

SUSSEX

Mountfield Mine, Battle
Newhaven

Clifton Hill

HAEMATITE

SUSSEX

Rottingdean

"Hovite"

Sussex

"A carbonate of lime and alumina"

Hove

Clifton Hill

Jarosite

Sussex

Kewhamen

MAGNESITE

SUSSEX

Newhaven

Marcasite

Sussex

Beachy Head.

Nordstrandite

Sussex

Kewhaven

"Proto-*imogolite*"

Newhaven

Sussex

PYRITE

SUSSEX

Beachy Head

Hamsey

~~Went~~ Amberley

Sullington

Sussex

Lewes

Quartz

Sussex

Sussex

Newhaven

Sidente

Sussex

Sussex

Thenardite

Sussex

Mountfield mine

Manganese minerals, unspecified. Sussex

Newhaven

ALFRISTON, Seaford, Sussex.

TMH (1868), 69. Calcite, in chalk.

GEL (1858). Calcite, in yellow crystallised
columnar masses - Alfriston Chalk-pit.

1" 182

TQ 03 13

~~AMBERLEY~~ AMBERLEY, Arundel, Sussex.

TMH (1868) 69. Ch. & U. g-sd. Pyrite - "Mount
Amberly, Arundel, Sussex"

BATTLE, Sussex
See also MOUNTFIELD MINE

1" 184

TQ 74 16

Ge L (1858): Limonite (brown ironstone), plentiful in
greensand, eg. near Battle.

SRMRGB (III) (1918) 33 Anhydrite said to have
been met with in boring.

1" 183

TV 58 95

BEACHY HEAD,

Sussex

TMH (1868), 69: In Ch. Calate; pyrite

62L (1858). Calcite, in yellow crystallised
columnar masses. Marcasite in
chalk & marls.

1"184

TQ 7 0

BEXHILL, Hastings, Sussex,

[? = Bexhill, TQ 7 0]

TMH (1868), 69: Lignite, in Wealden. "BOXHILL,
Hastings, Surrey"

1" 182, 183

TQ 2-3 0

BRIGHTON, Sussex

See also CLIFTON HILL; HOVE; ROTTINGDEAN, TELSCOMBE, FALMER

TMH (1868), 69: In chalk. "Websterite" (=Aluminite)

Brighton
CLIFTON HILL, Sussex. 1" 182, 183 TQ 30 05
See also BRIGHTON, HOVE

BM: Allophane, botryoidal white massive.

Bannister et al. Nature (1948) 162 ^{165?} 565; MM (1950) 29, 1.

Basaluminite; also compact nodules, a
mixt. of gibbsite & allophane. → The "collyrite"
from Hove may be this material

White, H.J.O. (1924) "The geol. of the country nr. Brighton &
Worthing." Mem. Geol. Surv. G.B. Diaspore from
Clifton Hill - Montpelier area.

Howell J (1878) "The Geol of Brighton, Pt. II" Proc. Geol. Assoc.
5, 80-90 Gypsum - Clifton Hill - Montpelier area
- also "Hovite" "a carbonate of lime & alumina"

Proc.
Geol.
Assoc. 96
RD Wilmor & B. Young (1985) 47-52. A

spec. of bayerite in the BM labelled
"Hove, Sussex" may be from the Clifton Hill
Montpelier area

CUCKMERE HAVEN, Seaford, E. Sussex

BMS coll 2371 (J. Hall). Calcite.

1" 182, 183

TQ 35 08

FALMER, Brighton, Sussex.

R.D. Wilmot & B. Young [also D.J. Morgan] (1985) Proc. Geol. Assoc
96 p 47-52.

Sands in temp. excav's for Falmer
by-pass at TQ 3528 0882 had
gibbsite, basaluminite & allophane

1" 183

TQ 409 128

HAMSEY, Lewes, Sussex

TMH (1868), 69: Chalk. Calcite; pyrite.

Ge L (1858). Calcite, acute rhomboids, in chalk marl

1" 182

TQ 01 11

Houghton, Arundel, Sussex

TMH (1868), 69. Chalcedony, in Chalk.

1" 182, 183

TQ 2 0

HOVE, Brighton, Sussex

See also BRIGHTON, etc

TMH (1868), 69. In Chalk. "Websterite" (=Aluminite)

BM(NM) Bayerite [See ~~the~~ CLIFTON HILL]

Bannister et al (1948) Nature ^{165?} 162, 565.

"Collyrite" from Hove, in old collections
may = the mixt. of allophane &
gibbsite from CLIFTON HILL (q.v.).

Howell J (1878) "The geol. of Brighton, II" Proc. Geol.
Assoc. 5, 80-90. Aluminite from a chalk
pit at Goldstone Bottom, Hove - up to 2 m
across! also veins in underlying chalk.

[Exact pit unknown now]. Allophane. "Hovite"
- "a carbonate of lime & alumina".

1" 183

TQ 43 1

LEWES, Sussex

GeL (1858). Pyrite - brown octahedra.

AF Hallimond MM(1922) 19 330. glauconite from
the green sand nr. Lewes.

MONTPELIER, Brighton, Sussex

See CLIFTON HILL

1" 184

TQ 72 19

MOUNTFIELD MINE, nr Battle, Sussex

See also BATTLE

WS Gibson, Mine & Quar Eng., (1958) 24, 332 [MA (1963) 16 [2], 152]
Sub-Wealden gypsum mine near
Battle, Sussex. Yielding 13,000 tons/week
4 main seams, two currently being
worked.

SLMRGB III (1918), 33. "Subwealden Gypsum Mine,
Mountfield, Robertsbridge". On borders
of Limekiln & Councillors Woods ca 1 mi SW of
Mountfield Church. In Purbeck Beds.
Gypsum in 4-7 ft seam. Anhydrite
rare but said to have been met

with in the BATTLE boring. Gypsum in
nodules, also "satin-spar".

BR Young, B Young & AT Raine, J. Russell Soc (1985)
1 (3), 92-3.

Thenardite (Na_2SO_4), post-mine efflorescences
on mudstone

West (1964) Proc. Yorks. Geol. Soc., 34 315-330.

"Evap. Diagenesis in the Lower Purbeck Beds
of Dorset". Refers to:

R. Howitt, Quart. J. Geol. Soc. Lond. (1964), 120,
27-113, Celestite in the Marnfield &

1" 183

TQ 44 01
TV 4 9

NEWHAVEN, Lewes, Sussex (I)

J Howell (1876) The Geol of Brighton, Pt II Proc. Geol Assoc 5 80-90 ^{Aluminite found by Mantell}

TMH (1868), 69: In chalk. Gypsum var Selenite;
Aluminite ("Websterite").

BM. Compact white magnesite nodule in chalk.
Gypsum, var. selenite

Ge L (1858). Websterite [= aluminite], reniform masses or botry. concretions on sea-beach nr. Newhaven, & in a ferruginous clay resting upon the chalk of the overhanging cliffs; probably of recent origin.

Rayners Cat (1960) Aluminite

Wilmot RD & Young B (1985). Proc. Geol. Assoc., 96, 47-52.

From cliff exposures at Castle Hill between coast guard stn (above) & old look-out post (below), 2 sites at TV 4457 9998 & 4448 9998. Topmost clays have gypsum var selenite, clear single xls, twins & stellate aggreg's. Jarosite common as compact massive yellowish bands to 5cm thick in these clays & in underlying lignitic clay as bright yellow earthy bands to 3cm thick. In the pipe fillings, aluminite "cauliflower" nodules → 15cm ass. w. selenite - also in thin veins penetr. the chalk. Basaluminite less abund. but common - hard compact white to greyish opaque to slightly translucent masses → 8cm embedded in impure "selenite" - most common in crusts on the

NEWHAVEN, Sussex (II)

"~~proto~~^{nearer} imogolite"

chalk surface, where > than aluminite.

"Aluminosilicate gel" IR simil to allophane & imogolite, as soft friable opaque cream to white at one place.

Gibbsite: V friable masses $\rightarrow$ 20 cm grading into surrounding clayey sand. Throughout pipe fillings but mostly nr. walls close to basaluminite

Nordstrandite: At 1 point in centre of small hollow on E side of E locality where allophane-like gel is.

Impure nodules w. brown Fe oxides & black "manganiferous matter", & forms white or pale cream bands; soft, friable & fine-grained w an earthy texture some parts more vitreous (grain size)

Bayerite: NOT found in isolation but by XRD within a nodule containing gibbsite and quartz

NEWICK OLD PARK, Uckfield, SussexTMH (1868), 69: Wealden, & Hastings Sand. Lignite

[Newick 4121; Newick Park, 4219; Oldpark wood, 4218].

1" 181, 182

SU 97 21

PETWORTH, Sussex

See also TILLINGTON

TMH (1868), 69: Lr. g-s. Fullers-earth

GeL (1858) Fullers earth - Tillington [qv] & Petworth.

1" 183

TQ 36 12

PLUMPTON, nr. Hurstpierpoint, Sussex

TMH (1868), 69: In gr. s'd & ch. Calcite - "Plumpton,
Hurstpierpoint".

G&L (1858) Calcite, rhomboidal xls, in cavities
in chalk near the surface - "Plumpton
Plains" [TQ 36 12]

1" 182, 183

TQ 3 0

ROTTINGDEAN, Brighton, Sussex

See also BRIGHTON, etc

TMH(1868), 69: Haematite, in chalk.

ST. CLEMENT'S CAVE, Hastings, Sussex TQ 8210

Rec. Lond. Spel. gp. (1956) 1. Listed, as commercial cave

1" 182

TQ

09 13

SULLINGTON, Steyning, Sussex.

TMH (1868), 69: In g-s'd e ch. Pyrite

1" 182, 183

TQ 39 01

TELSCOMBE, Brighton, Sussex

RD Wilmot, B. Young [also DJ Morgan] (1985)

p47-52.

Sands & clay (collapsed Test sed. infilling solution hollows in chalk) exposed in approach road to Portobello Outfall Work, Telscombe, at TQ 3941 0142 gave small amounts of gibbsite & basaluminite

1" 181, 182

SU 96 21

TILLINGTON, Petworth, Sussex

See also PETWORTH

TMH(1868), 69. Fullers - earth

GLL(1858) Fullers earth.

TQ 47 21

UCKFIELD, Sussex

See NEWICK OLD PARK

WALDRON, Sussex

1" 183

TQ 549 194

ge L (1858). Lignite