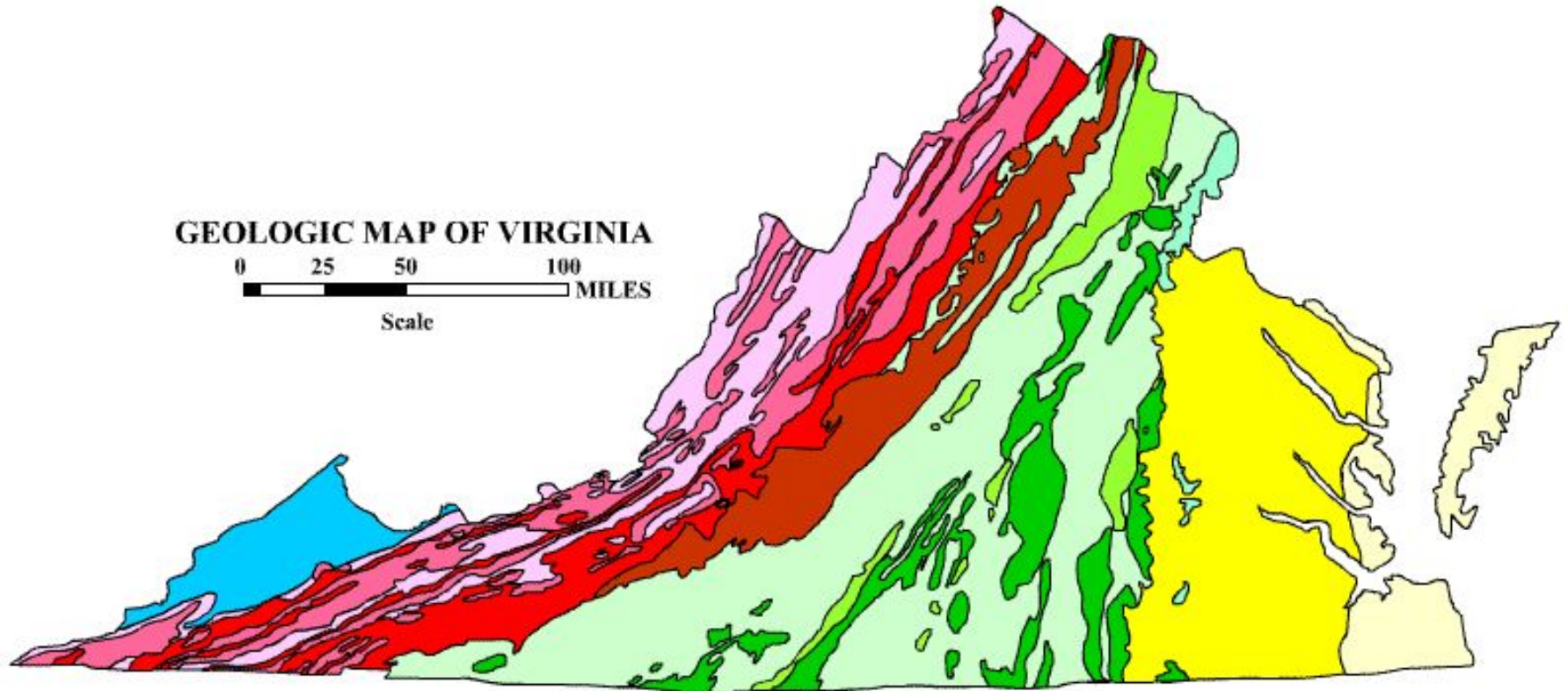


SVGMS Field Trips

Virginia Trips



Albemarle County

Faber Lead Zinc Mine

37.83722 -78.70611

Mineral List

[iAzurite](#)

[iCalcite](#)

[iCerussite](#)

[iChalcopyrite](#)

[iFluorite](#)

[iGalena](#)

[i var: Argentiferous Galena](#)

[iHydrozincite](#)

[iPyromorphite](#)

[iPyrrhotite](#)

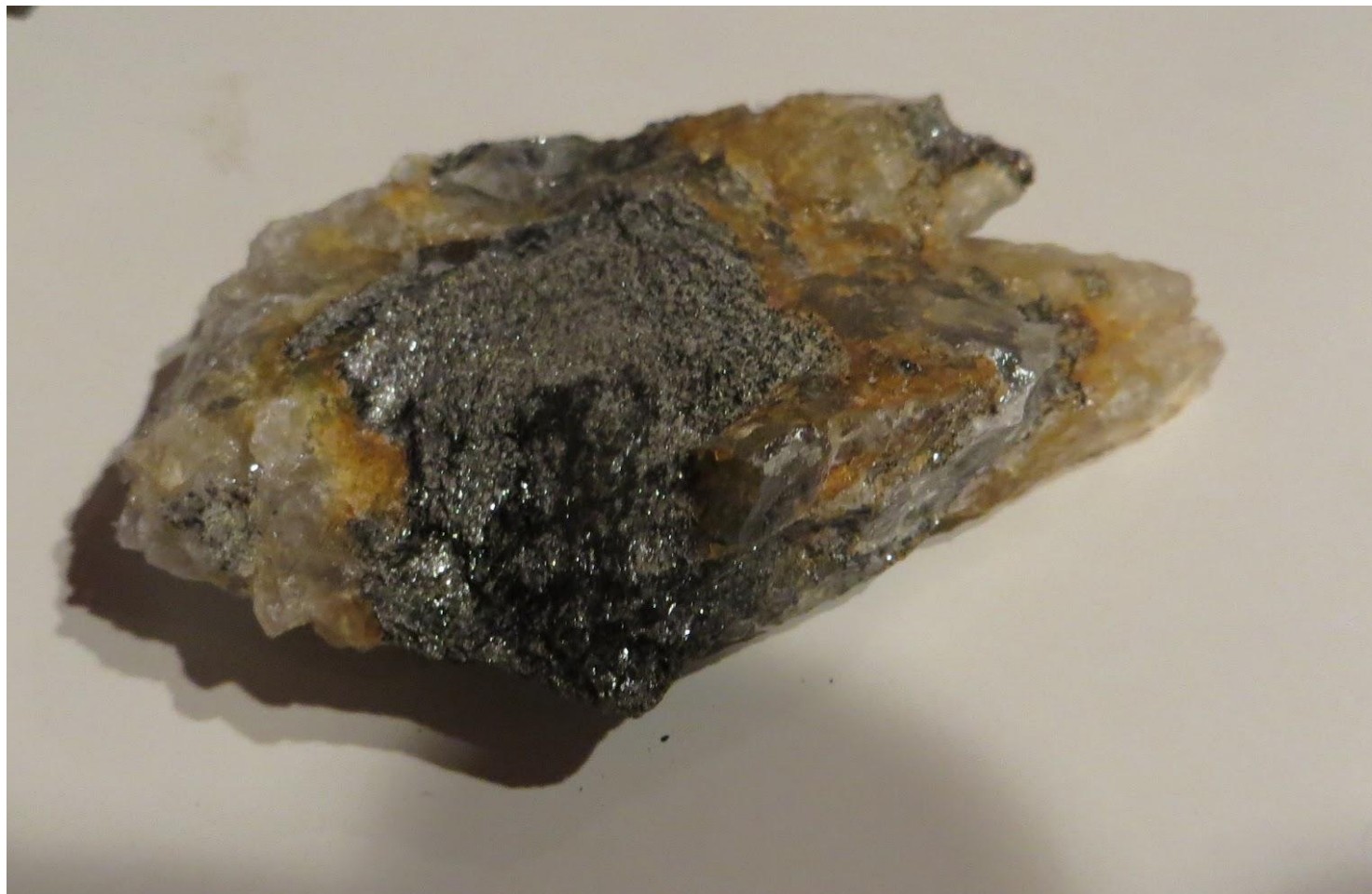
[iQuartz](#)

[iSilver](#)

[iSmithsonite](#)

[iSphalerite](#)

Sphalerite,
Galena, Quartz

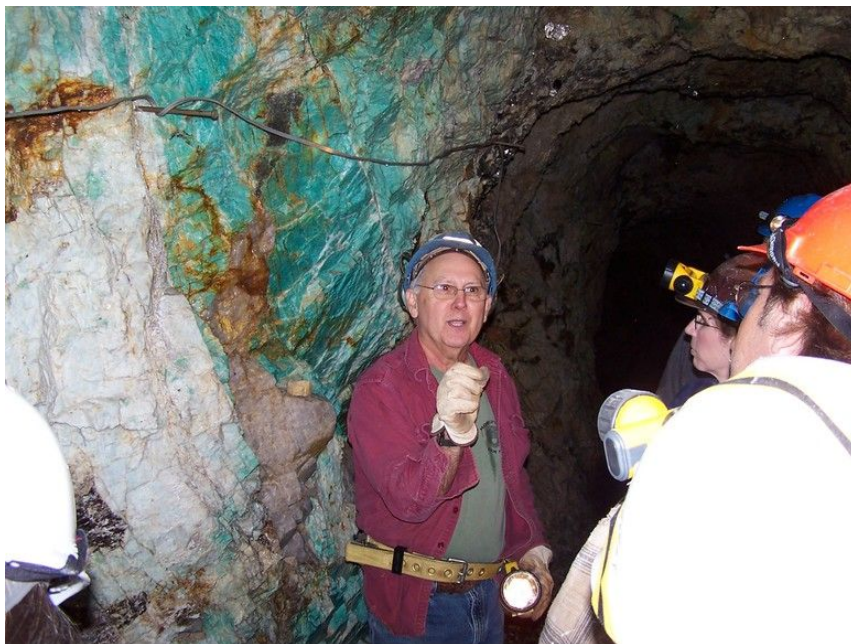






Amelia County

Morefield Mine



A feldspar-mica and specimen mine in the Morefield pegmatite.
Located near Winterham, near Amelia Court House. Started 1929 and owned by S.V. Morefield.

[①Albite](#)
[①var: Cleavelandite](#)
[①Allanite-\(Ce\)](#)
[①Almandine](#)
[①Andradite](#)
[①Anorthite](#)
[①'Apatite'](#)
[①Bermanite](#)
[①Bertrandite](#)
[①Beryl](#)
[①var: Aquamarine](#)
[①var: Goshenite](#)
[①'Biotite'](#)
[①Bismutite](#)
[①Brookite](#)
[①Calcite](#)
[①Cassiterite](#)
[①Cerussite](#)
[①Chalcophyrite](#)
[①Chiolite](#)
[①Chrysoberyl](#)
[①Columbite-\(Fe\)](#)
[①Cryolite](#)
[①Elpasolite](#)
[①Euclase](#)
[①Euxenite-\(Y\)](#)
[①Ferro-hornblende](#)
[①Fluellite](#)
[①Fluorapatite](#)
[①Fluorite](#)

[①var: Chlorophane](#)
[①Galena](#)
[①Gearsutite](#)
[①Goyazite](#)
[①Helvine](#)
[①Hollandite](#)
[①Hydrokenoralstonit](#)
[e](#)
[①Ilmenite](#)
[①Kaolinite](#)
[①'Labradorite'](#)
[①Lead](#)
[①Lindbergite](#)
[①Masutomilite](#)
[①Microcline](#)

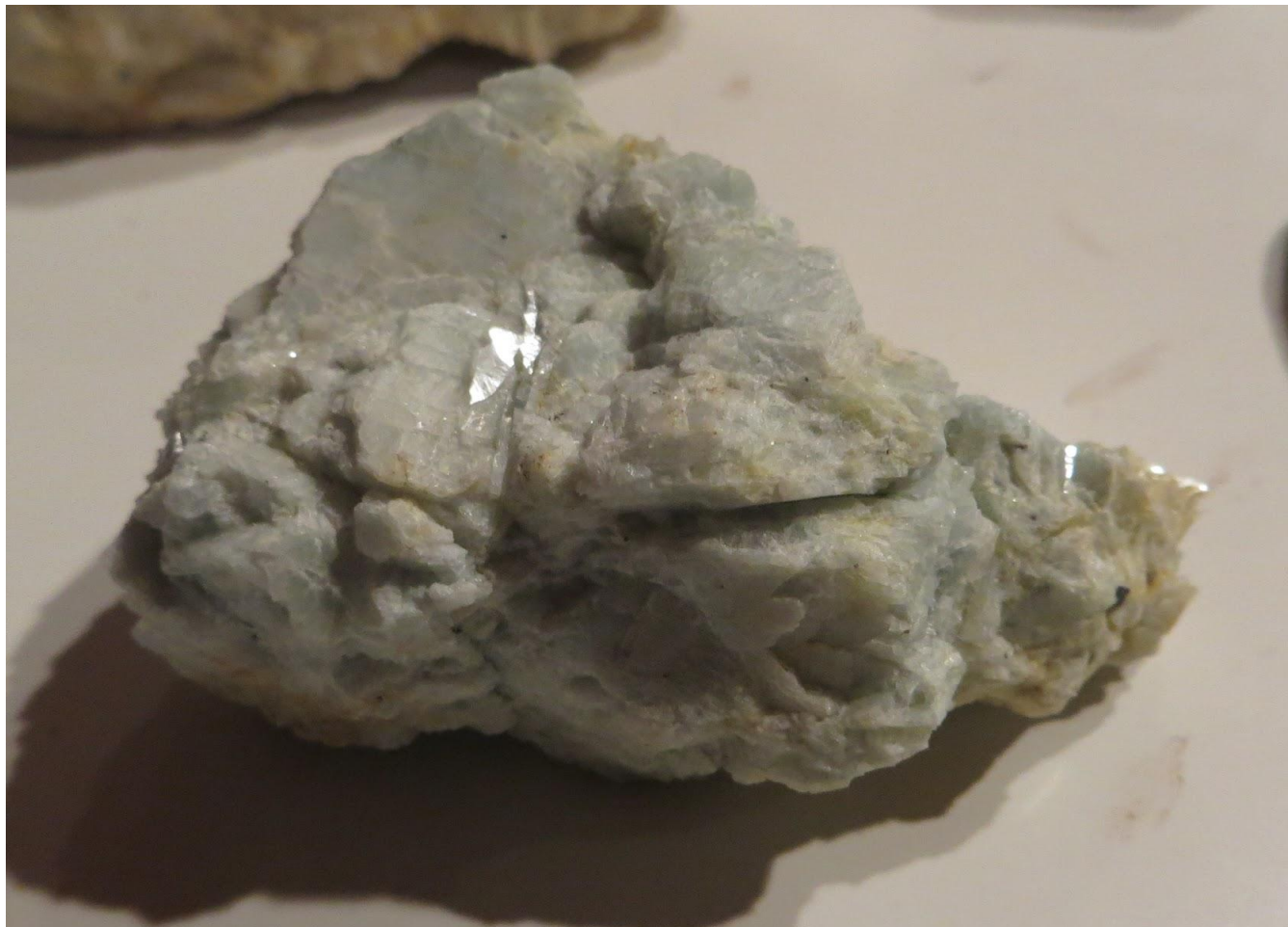
[①var: Amazonite](#)
[①Microlite Group](#)
[①Molybdenite](#)
[①'Monazite'](#)
[①'Moonstone'](#)
[①Muscovite](#)
[①var: Leverrierite](#)
[①var: Sericite](#)
[①Opal](#)
[①var: Opal-AN](#)
[①Orthoclase](#)
[①Pachnolite](#)
[①Phenakite](#)

[①Phosphophyllite](#)
[①Phosphosiderite](#)
[①Phosphuranilite](#)
[①Prosopite](#)
[①Pyrite](#)
[①Pyrolusite](#)
[①Pyromorphite](#)
[①Quartz](#)
[①var: Agate](#)
[①var: Chalcedony](#)
[①var: Rock Crystal](#)
[①var: Smoky Quartz](#)
[①Rutile](#)
[①Samarskite-\(Y\)](#)
[①Schorl](#)
[①Serrabrancaite](#)
[①Spessartine](#)
[①Spodumene](#)
[①Strengite](#)
[①Sussexite](#)
[①Tantalite-\(Mn\)](#)
[①Thomsenolite](#)
[①'Thorogummite'?](#)
[①Titanite](#)
[①Topaz](#)
[①'Tourmaline'](#)
[①Triplite](#)
[①Weddellite](#)
[①'Zinnwaldite'](#)
[①Zircon](#)

Amazonite (feldspar)









Amherst County

Boxley Piney River Quarry

Minerals List:

[ⓘAnatase](#)

[ⓘIlmenite](#)

[ⓘKaolinite](#)

[ⓘRutile](#)

[ⓘTacharanite](#)

[ⓘZoisite](#)

[ⓘvar: Thulite](#)

Roseland Anorthosite

Age: Mesoproterozoic (1600 - 1000 Ma)

Stratigraphic name: Roseland Anorthosite

Description: Roseland anorthosite (Ross, 1941; Herz and Force, 1987). White alkalic anorthosite contains andesine antiperthite megacrysts, blue quartz, and lesser orthopyroxene and rutile; cataclastic fabric is pe... >>>

Comments: Blue Ridge Basement Complex, Middle Proterozoic (Grenville-Age) Plutonic Rocks

Lithology: Major:{anorthosite}

Reference: Horton, J.D., C.A. San Juan, and D.B. Stoeser, 2017, The State Geologic Map Compilation (SGMC) geodatabase of the conterminous United States: U.S. Geological Survey Data Series 1052. 2998939.

Titanium minerals: Rutile, Ilmenite, Blue
Quartz







Augusta County

Not an official club trip. Just a nice walk in the woods with friends.

Vesuvius (Fauver) Mine

[Goethite](#)
[Hematite](#)
[Lithiophorite](#)
[Manganite](#)
[Pyrolusite](#)

Kelly Bank Mine

[①Birnessite](#)
[①Cacoxenite](#)
[①Churchite-\(Y\)](#)
[①Copiapite](#)
[①Cryptomelane](#)
[①Goethite](#)
[①Hematite](#)
[①Kaolinite](#)
[①'Limonite'](#)
[①Lithiophorite](#)
[①Manganite](#)
[①Paracoquimbite](#)
[①Planerite](#)
[①'Psilomelane'](#)
[①Pyrolusite](#)
[①Rhomboclase](#)
[①Turquoise](#)
[①Variscite](#)
[①Wavellite](#)

Vesuvius Mine: Iron;
Manganese, Micros







Kelly Bank Mine: Iron;
Manganese; many cool
micros







Buckingham County

Kyanite Mining Company

Minerals List:

[①Actinolite](#)

[①Hematite](#)

[①Kyanite](#)

[①Muscovite](#)

[①Pyrite](#)

[①Quartz](#)

[①var: Amethyst](#)

[①'Turgite'](#)

The monadnock is getting smaller!



Pyrite in
Quartzite; White
and Blue
Kyanite,
Peacock
Hematite







Hanover County

US Silica Quarry

A former mine and quarry located 3½ miles South of Montpelier. Started over 100 years ago. Was operated as a titanium mine (WWII) and was owned by the American Rutile Corp. Now a feldspar quarry and owned by the Feldspar Corporation. Mineralization is in a meta-anorthosite body in gneissic rock with pegmatite dikes.

Minerals List:

[①Actinolite](#)

[①Albite](#)

[①var: Andesine](#)

[①'Albite-Anorthite Series'](#)

[①'Amphibole Supergroup'](#)

[①'var: Uralite'](#)

[①Anatase](#)

[①Anthophyllite](#)

[①'Apatite'](#)

[①'Biotite'](#)

[①'Garnet Group'](#)

[①Goethite](#)

[①'Hornblende'](#)

[①Ilmenite](#)

[①Kaolinite](#)

[①Microcline](#)

[①Muscovite](#)

[①var: Illite](#)

[①var: Sericite](#)

[①Prehnite](#)

[①Pyrite](#)

[①'Pyroxene Group'](#)

[①Quartz](#)

[①var: Blue Quartz](#)

[①var: Smoky Quartz](#)

[①Rutile](#)

[①Spessartine](#)

[①Titanite](#)

[①Zircon](#)

“Moonstone” feldspar;
Ilmenite, Rutile







Louisa County

Contrary Creek

Minerals List:

[ⓘ Almandine](#)

[ⓘ Gahnite](#)

[ⓘ Gold](#)

[ⓘ Kyanite](#)

[ⓘ Magnetite](#)

[ⓘ Pyrite](#)

[ⓘ Rhomboclase](#)

[ⓘ Tellurobismuthite](#)

Chlorite-Mica Schist;
Pyrite, Magnetite, Garnet,
Gold









Madison County

Rose River

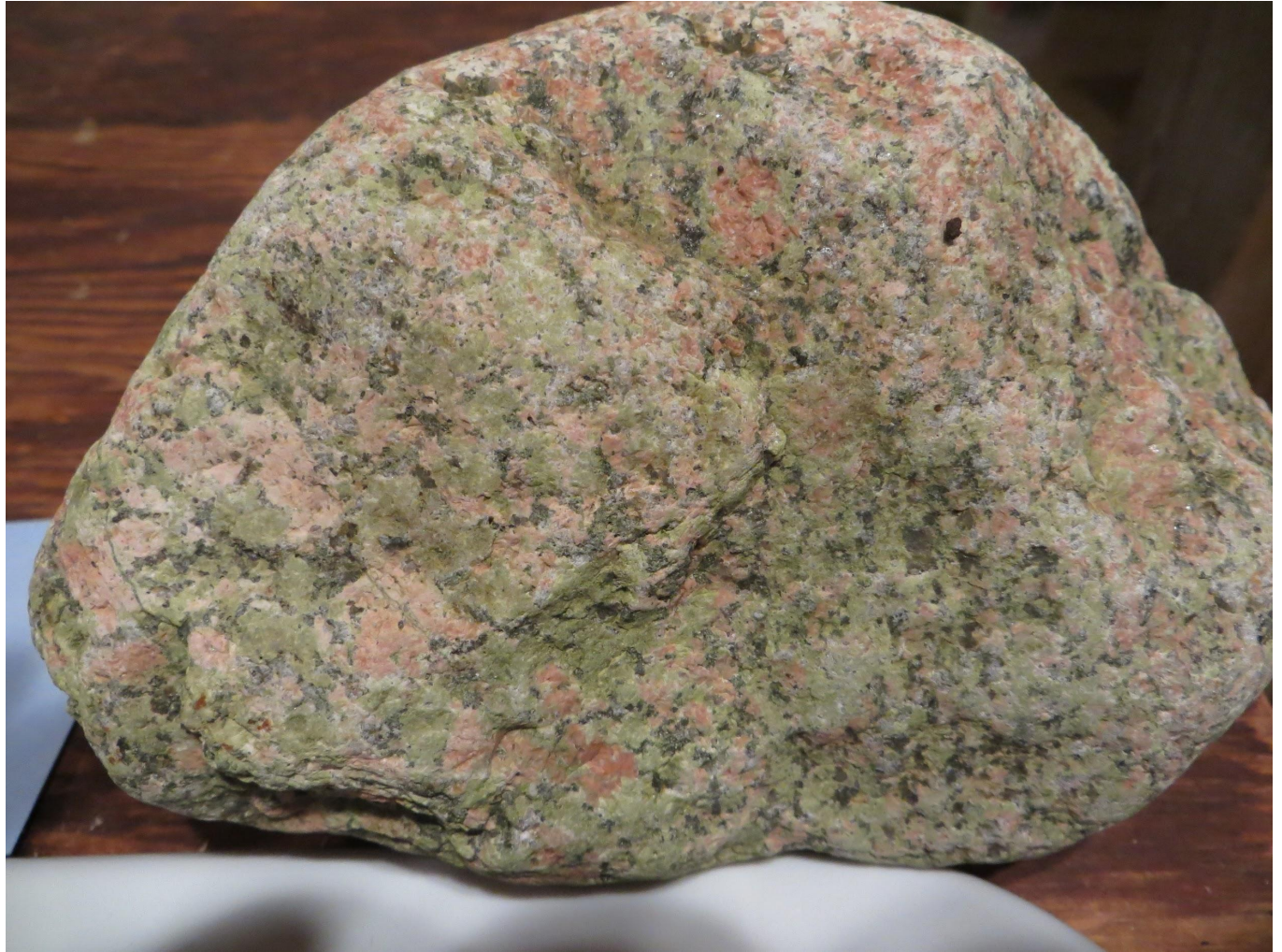


Unakite
Metabasalt
Blue Quartz
Jasper

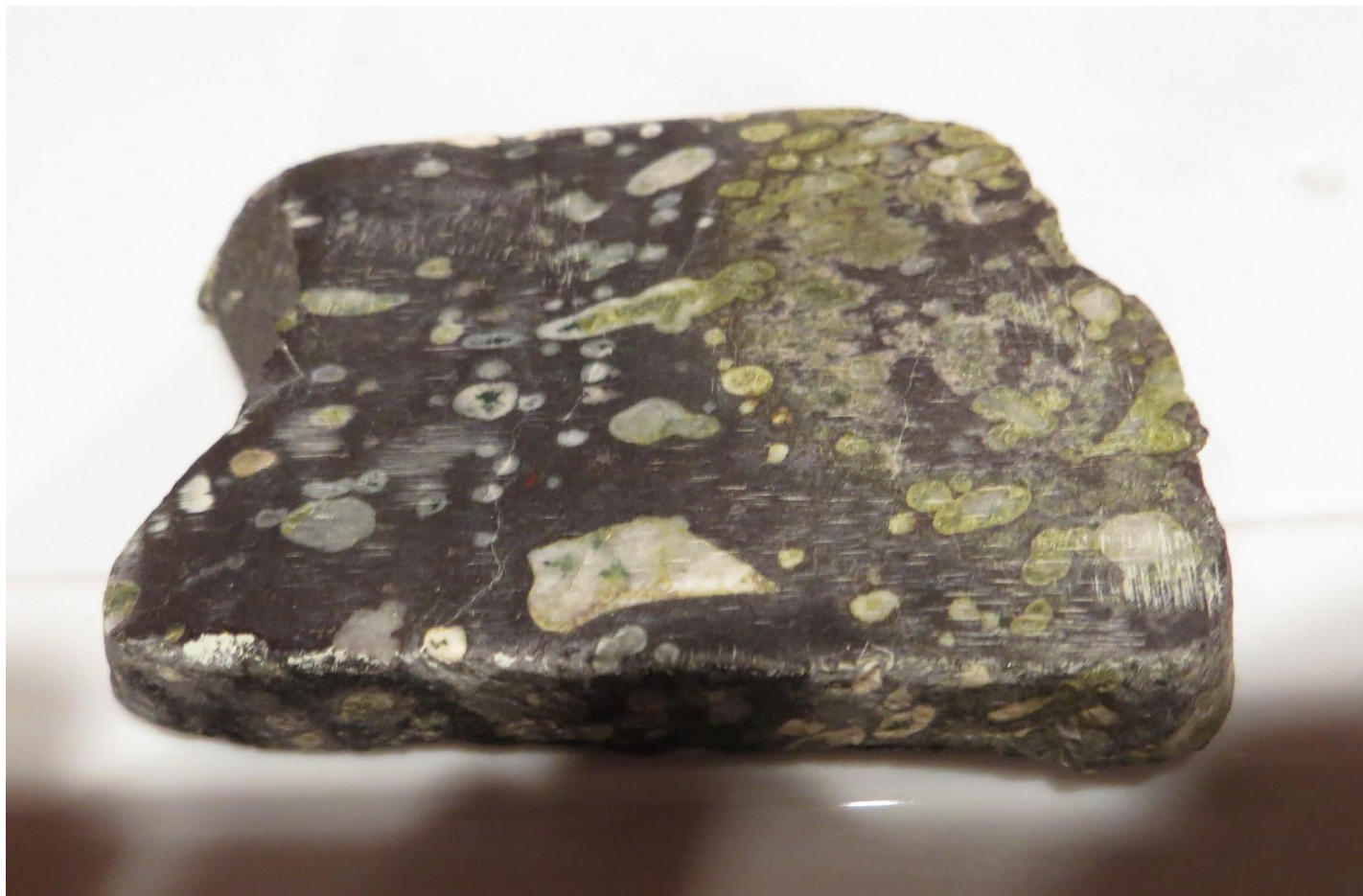
Metabasalt



unakite













Nelson County

Allen Mine

Chalcopyrite

Malachite



American Rutile Quarry

Actinolite

Anatase

Apatite'

Augite

'Biotite'

Chalcopyrite

Epidote

'Garnet Group'

Graphite

Ilmenite

Microcline

Muscovite

'Pyroxene

Group'

Quartz

var: Blue

Quartz

Rutile

Titanite

Tremolite

Zoisite



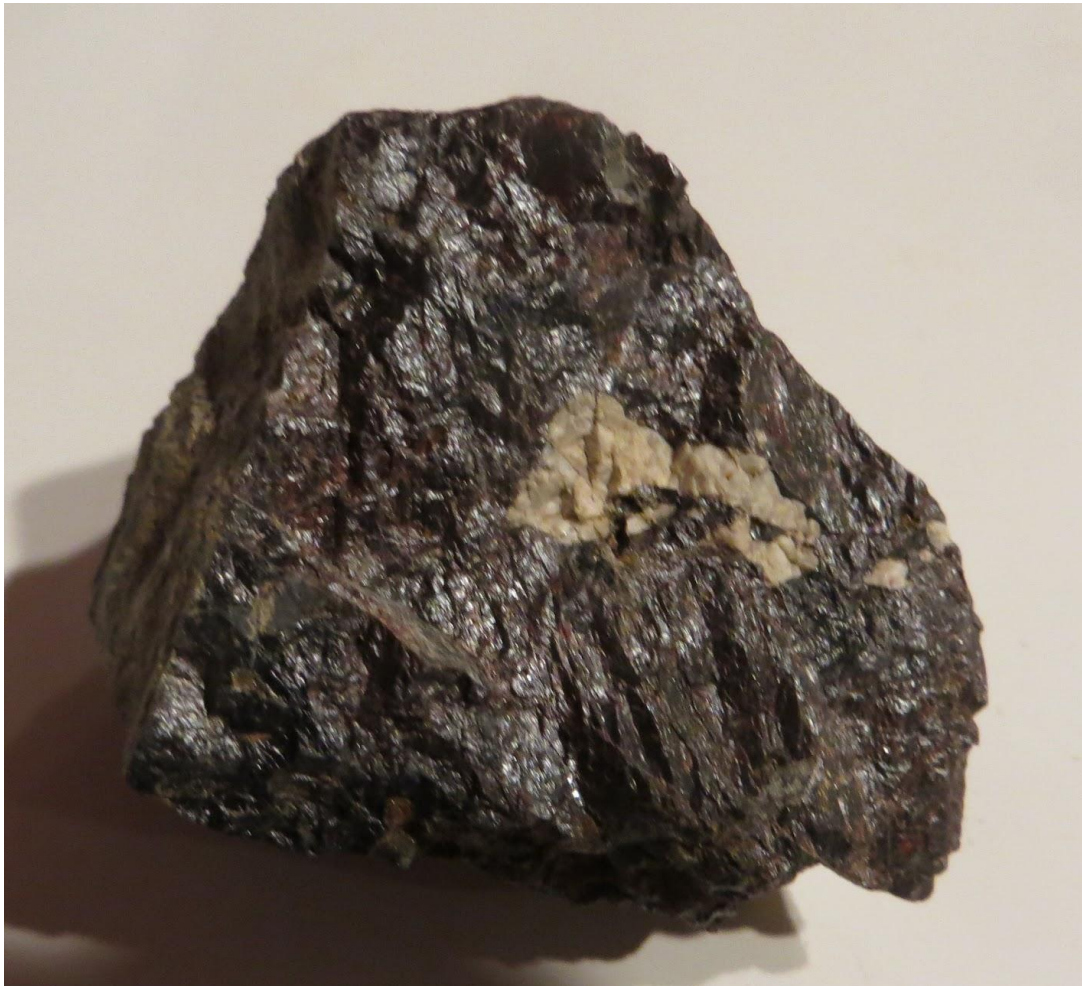
Copper; Pyrite; Chalcopyrite;
Hematite; Malachite





Blue Quartz, Ilmenite,
Rutile







Prince William County

Vulcan Quarry



[①Actinolite](#)

[①Aegirine](#)

[①Amphibole](#)

[Supergroup'](#)

[①'var: Byssolite'](#)

[①'Apatite'](#)

[①'Apophyllite'](#)

[①Aragonite](#)

[①Babingtonite](#)

[①'Biotite'](#)

[①Bornite](#)

[①Calcite](#)

[①'Chabazite'](#)

[①Chabazite-Ca](#)

[①Chalcopyrite](#)

[①Clinozoisite](#)

[①Cristobalite](#)

[①Datolite](#)

[①Dravite](#)

[①'Feldspar Group'](#)

[①Galena](#)

[①Greenockite](#)

[①Grossular](#)

[①Gyrolite](#)

[①Hematite](#)

[①var: Specularite](#)

[①'Heulandite'](#)

[①Heulandite-Ca](#)

[①Ilmenite](#)

[①Laumontite](#)

[①Malachite](#)

[①Muscovite](#)

[①Natrolite](#)

[①Opal](#)

[①Orthoclase](#)

[①Pectolite](#)

[①Prehnite](#)

[①'Pumpellyite'](#)

[①Pyrite](#)

[①Quartz](#)

[①Rutile](#)

[①Scheelite](#)

[①Scolecite](#)

[①Silver](#)

[①Sphalerite](#)

[Stellerite](#)

[①'Stilbite'](#)

[①Stilbite-Ca](#)

[①Thaumasite](#)

[①Titanite](#)

[①Topaz](#)

[①'Tourmaline'](#)

[①Zircon](#)

Chabazite; Stellarite; Prehnite; Stilbite;
Calcite









Rockbridge County *Turkey Hollow*

Dixie Mine

Not an official club trip.

① [Cacoxenite](#)

① [Dufrénite](#)

① [Goethite](#)

① [Kidwellite](#)

① [Manganite](#)

① [Rockbridgeite](#)

① [Strengite](#)



Manganese Breccia and
Unakite













Rockbridgeite and various
micros





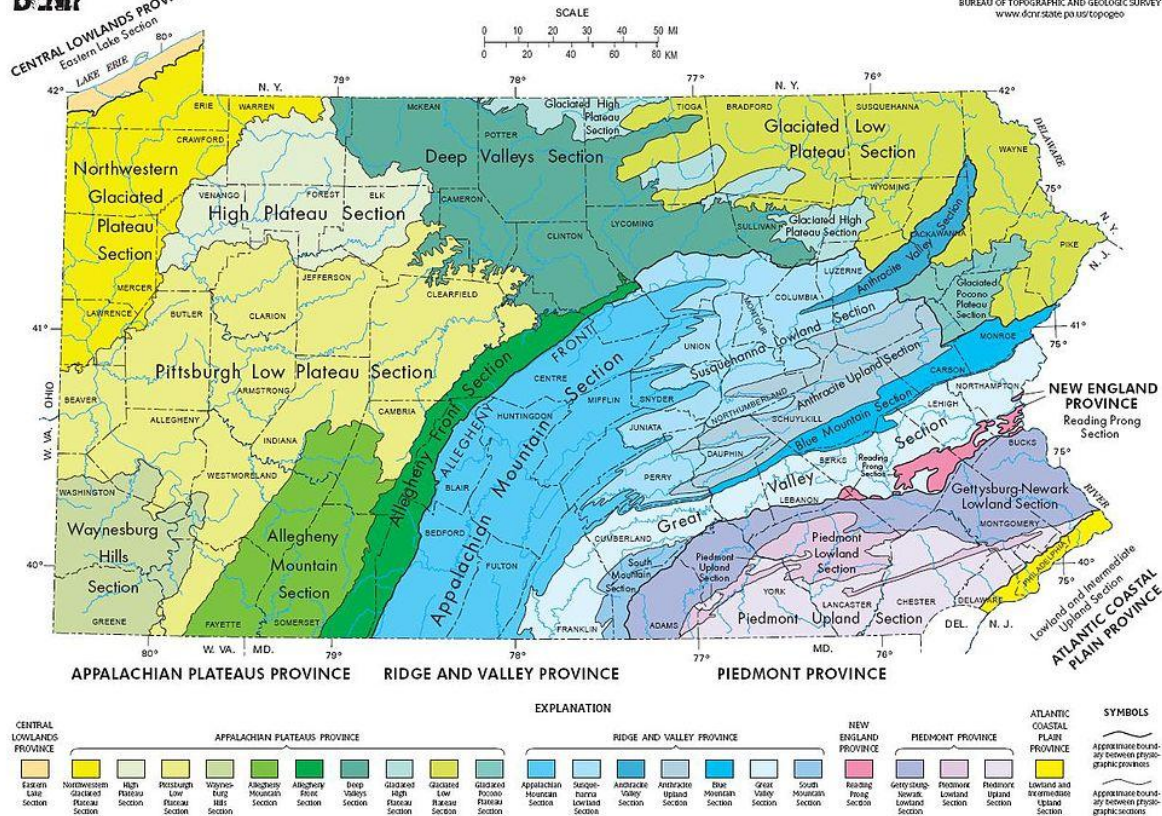
Pennsylvania Trips

MAP 13

DCNR

PHYSIOGRAPHIC PROVINCES OF PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF
CONSERVATION AND NATURAL RESOURCES
BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY
www.dcnr.state.pa.us/topogeo



Snyder County

Quarry #2 Mount

Pleasant Mills

A limestone quarry. Famous for the abundance of calcite crystals, many of which are highly fluorescent, strontianite, fluorite, devonian era fossils, and wavellite, along with some other minor mineral occurrences. The second, and smaller of 2 quarries owned by the Stahl family. The main quarry is located in nearby Middleburg.

[①Cacoxenite](#)

[①Calcite](#)

[①Celestine](#)

[①Fluorite](#)

[①Planerite](#)

[①Quartz](#)

[①Strontianite](#)

[①Turquoise](#)

[①Variscite](#)

[①Vauxite](#)

[①Wavellite](#)

National Limestone Quarry #1 Middleburg

National Limestone Quarries' main quarry, headquarters, and processing location. Excellent locality for calcite crystals, both clear, and orange in color, tan-colored dogtooth calcite, deep purple fluorite in dark gray limestone and purple fluorite in white massive calcite matrix, minor occurrences of pyrite, minor drusy quartz crystals, occasional occurrences of strontianite, and most importantly, and unique to this location, beautiful golden and white calcite travertine (flowstone) from a collapsed cave, which was uncovered on the north side of the main pit during the quarrying operations a few years ago. Some of the flowstone specimens contain rare helictite formations, and others contain crinoid fossils, incorporated right into the flowstone, and many complete stalactites and stalagmites have also been found, as well as crystallized, rippled and layered flowstone, suitable for slabbing and polishing. The flowstone fluoresces pale blue under SW UV light.

Perhaps this may be the only opportunity to collect specimens from this type of cave formation, since collecting in existing caves and caverns is illegal and unethical. Each year, crews continue to uncover more cave features and flowstone as quarrying continues.

This quarry is accessible to EFMLS-affiliated mineral clubs only, for group field collecting trips, from April thru October.(along with their smaller quarry in nearby Mt. Pleasant Mills, famous for clear calcite crystals of large sizes, strontianite, and their world famous wavellite on fossil bearing matrix).

[Calcite](#)

[①Fluorite](#)

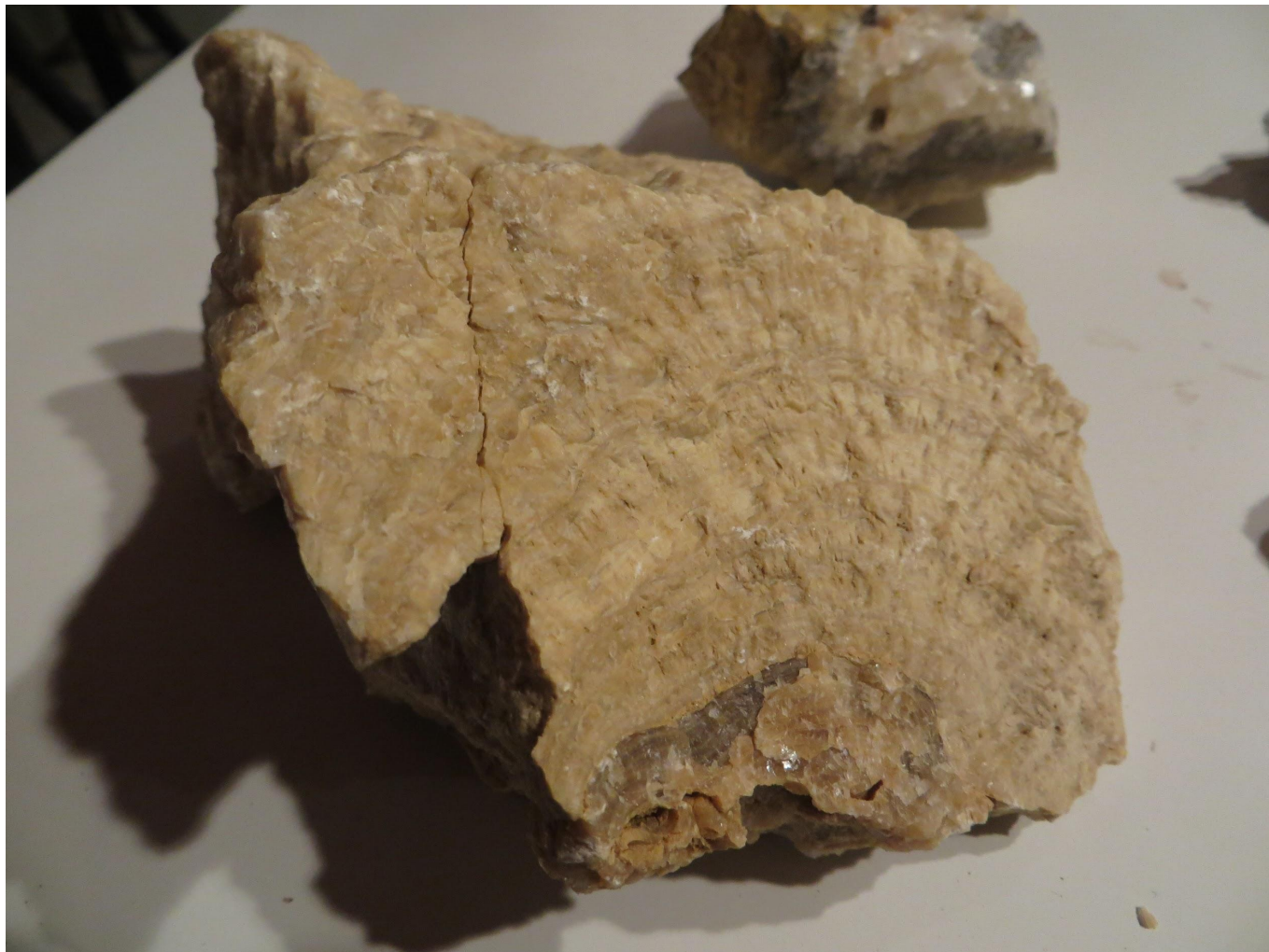
[①Pyrite](#)

[①Quartz](#)

[①Sphalerite](#)

[①Strontianite](#)

Quarry #1: Calcite Cave
Formations; Sphalerite,
Fluorite







Quarry #2: Wavellite;
various marine fossils









Lancaster County

Haines Kibblehouse

PA-MD Quarry



[①Albite](#)
[①Antigorite](#)
[①Aragonite](#)
[①Brucite](#)
[①Chromite](#)
[①Chrysotile](#)
[①'Deweylite'](#)
[①Hydromagnesite](#)
[①'Limonite'](#)
[①Lizardite](#)
[①Magnesite](#)
[①Magnetite](#)
[①Mcguinnessite](#)
[①Nakauriite](#)
[①Quartz](#)
[①var: Prase](#)
[①'Serpentine Subgroup'](#)
[①'var: Picrolite'](#)
[①Vermiculite](#)



Chromite;
Lizardite;
Magnetite;
Serpentine group
minerals













West Virginia Trips

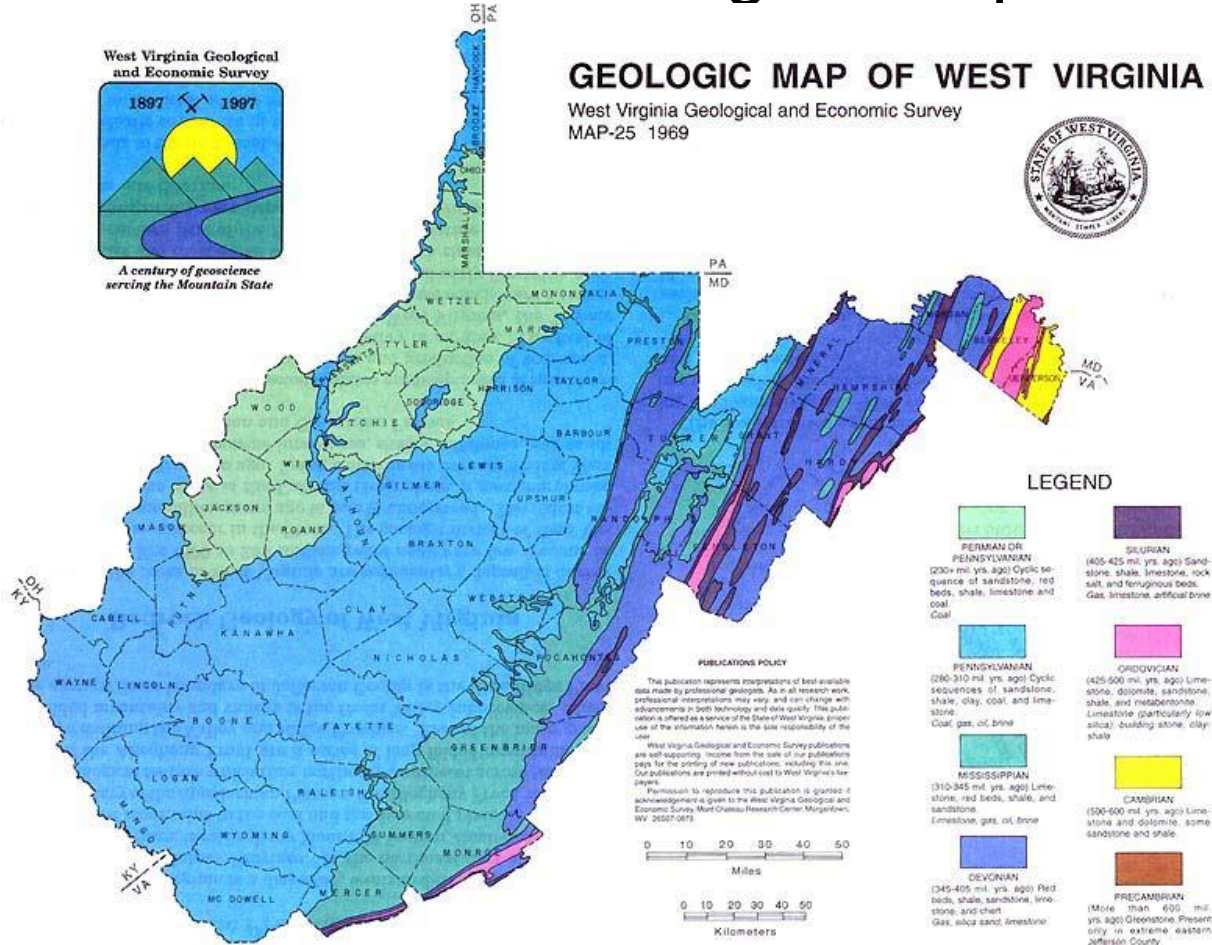
West Virginia Geological
and Economic Survey



*A century of geoscience
serving the Mountain State*

GEOLOGIC MAP OF WEST VIRGINIA

West Virginia Geological and Economic Survey
MAP-25 1969



Pendelton County

Sugar Grove

An amygdaloidal basalt dike-sill intruding the Devonian Millboro shale that outcrops along County road 21 approximately 5.5 miles south of the village of Sugar Grove, WV. The intrusion is Eocene age, 45 MA+/- and up to approximately 10 feet thick. Amygdules greater than 1 inch in diameter are uncommon making this locality strictly a micromount locality.

This intrusion is part of a suite of Eocene dikes, diatremes and plugs centered on the areas around Monterey, Va and Ugly Mountain, Pendelton Co., WV. However, some dikes extend into the Shenandoah Valley to the vicinity of Harrisonburg and Staunton. The road side outcrop is the only one known to contain attractive secondary minerals. These are the youngest volcanic rocks east of the Rocky Mountains.

Mineral List

[①'Albite-Anorthite Series'](#)

[①Analcime](#)

[①Aragonite](#)

[①Augite](#)

[①Baryte](#)

[①'Biotite'](#)

[①Calcite](#)

[①'Chabazite'](#)

[①Chabazite-Ca](#)

[①'Chlorite Group'](#)

[①'Erionite' ?](#)

[①Gypsum](#)

[①Harmotome](#)

[①Mesolite](#)

[①Natrolite](#)

[①Nontronite](#)

[①'Phillipsite'](#)

[①Pyrite](#)

[①Quartz](#)

[①'Smectite Group'](#)

[①Thomsonite-Ca](#)



Wire Pyrite; various
micros

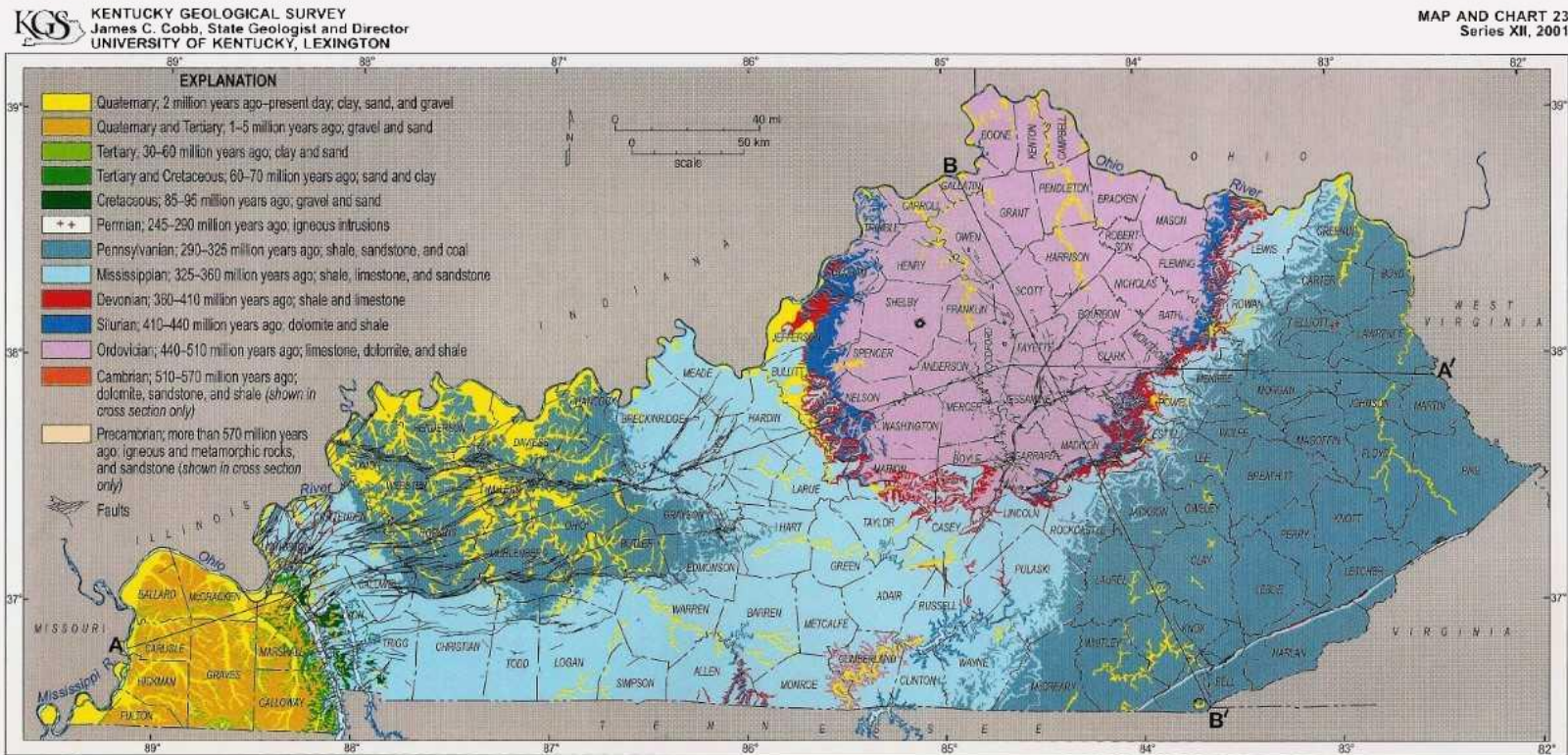








GEOLOGIC MAP OF KENTUCKY



Boyle County

Caldwell Stone Quarry

[①Baryte](#)
[①Calcite](#)
[①Chalcopyrite](#)
[①Dolomite](#)
[①Fluorite](#)
[①Galena](#)
[①Gypsum](#)
[①Marcasite](#)
[①Pyrite](#)
[①Smithsonite](#)
[①Sphalerite](#)
[①Strontianite](#)



Walker Farm



Fluorite; Calcite; Bryozoans







Geodes;
Geodes, and
more Geodes



Lincoln County

Kings Mountain RR Cut

A large - very active - railroad cut at the village of Kings Mountain. Geodes occur in outcrops along the lower portion of the railroad cut.

[①Baryte](#)

[①Calcite](#)

[①Celestine](#)

[①Chalcopyrite](#)

[①Dolomite](#)

[①Millerite](#)

[①Pyrite](#)

[①Quartz](#)

[①var: Amethyst](#)

[①var: Chalcedony](#)

[①Sphaler](#)



***Green
River***



Green River: Geodes





Kings Mt: Geodes;
Agates; Calcite







Future Trips

Willis Mountain - Sept. 29 8:30 AM

Shayna Diamond

Rebecca Atwood

Barry Atwood

Tommy LeBeau

Dan LeBeau

Mary McIntire

Bob McIntire

Scott Steele

Other Fieldtrip Suggestions