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Agate - history of : remembering rocks.

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Agate - Custom 7

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Remember

Rocks

Remember - Rocks

The great schists of St. Louis County and Itasca County are lava flows changed by the mt.-bldg. process.

Schist
quartzite

Schist is ~~metamorphosed rock~~ - coarse with mica (it's ^{dull} ~~fine~~ ^{green}) or with chlorite (med. green).
Quartzite with its now famous pipestone or catlinite deposit p. 27

See Minn. Valley.

Amethystine agate on Thomsonite Beach (Marquette Co., Mich.)

Niagara

Clinton, Wis. directly above Clinton iron deposits are limestone beds known as Niagara composed it's believed of extensive coral reefs which were reduced to sedimentary muds by erosive water action.

Appearing on a line of westward cliffs from north of Waukesha to tip end of Door Co. the formations known as Niagara Escarpment. Green Bay lies on or near it.

Milwaukee shore line - a small area along - L. Michigan shallow seas deposited limestone and shale.

quartz

Chrysoprase - translucent apple-green (a crystalline quartz) - a celcedony - coloring due to nickel oxide - a quartz - a stone sometimes valued as a gem.

actual - a little green

✓ For hundreds of thousands of years immense
flows of lava covered the site now known as
L.S.

iron Minnesota - Ore of Vermilion Range deposited when
lava flowed thru Archaen rock. More than a million
years later the earth bulged and threw up a mt. range
reaching from n.w. Minn. n.e. into Canada and on
into region of Quebec.

Baraboo Range - purple-grey rocks

shale Near Fond du Lac is Richmond Shale - a thickness
of 500 ft. of Shale completes Ordovician Age.

shale Shale is mainly clay hardened with rocks - changes
to slate or schist.

✓ L.S. - lavas

Canada - granite

Grand Marais, Minn. - Thompsonite near there.

Agate - Mille Lac Orbicular agate, eye, known as
L.S. Agate.

Hastings, County, Canada - (Ontario) - deep blue
mottled with flesh-colored pink and white inclusions.

Gooseberry Falls - agate

Thunder Bay - Moss Agate

Kakabeka Falls - Jasper

Lapis lazuli is metamorphosed limestone

Quartzite is metamorphosed sandstone

Mellen - slate with marble

Hurley - rocks with iron in 'em

✓ L.S. alternations of granite &
sandstone

✓
lava

Superior

At St. Croix Falls, Mellen and Superior outcroppings of Keeweenawan period - masses of lava, sandstone and conglomerate.

Camp Douglas, Trempealeau, Eau Claire, Lodi - Cambrian sandstone, soft and porous

Madison and La Crosse - a heavy rock - Ordovician deposits or lower magnesian limestone

Viroqua - Ordovician deposit

Platteville - limestone in Ordovician time

Southern Minn. from Taylor's Falls to Iowa - sediments formed sandstone, limestone and shale.

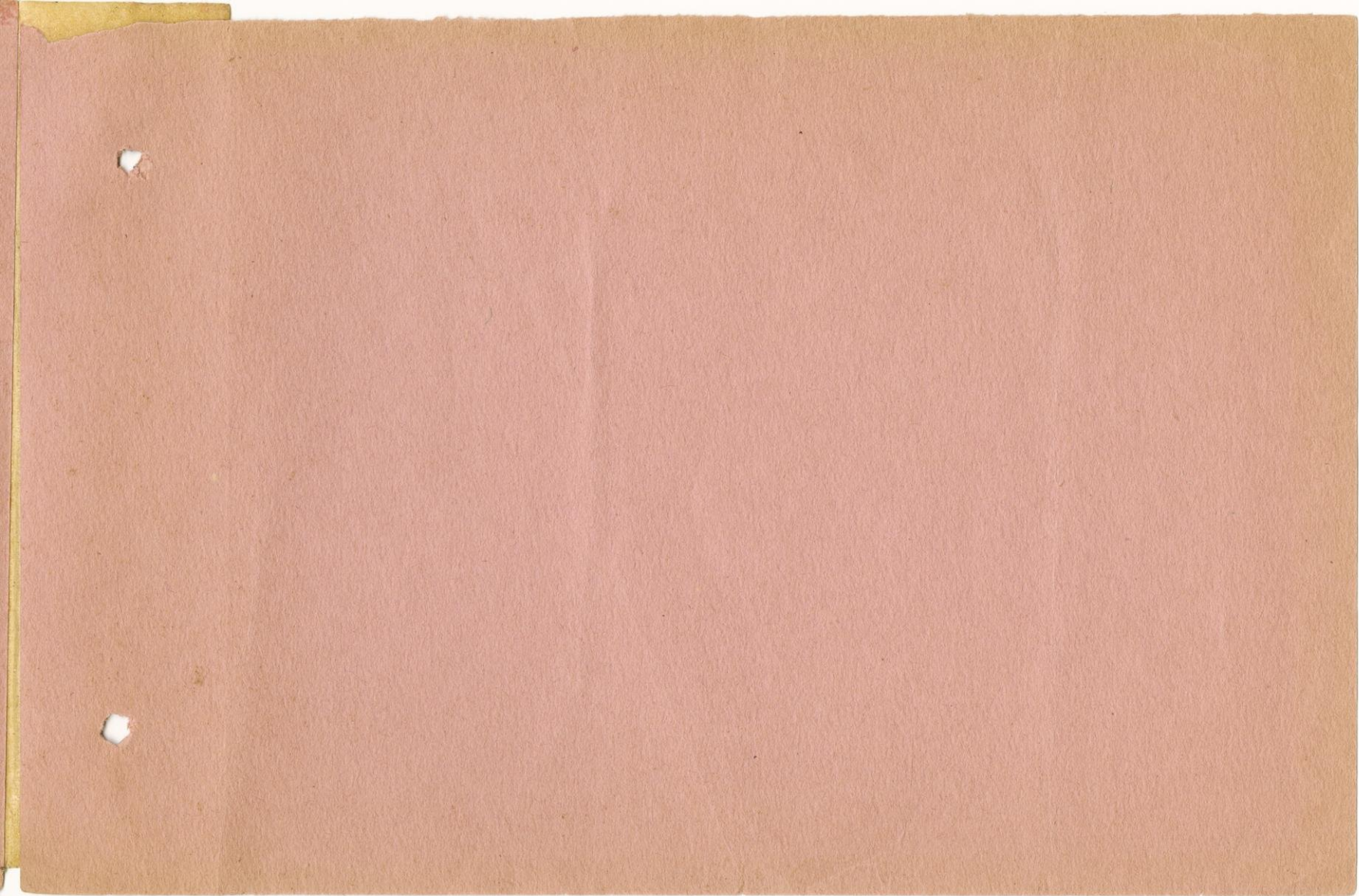
Cooperstown - low limestone and part of Niagara Cuesta (see above)

Agate mentioned in Bible Exodus 28:19 as one of the stones on the high priest's breastplate.

According to Theophrastus & Pliny agates

Found on Achates R. in Sicily

Found in both igneous & ^{sedimentary} basaltic rocks but if igneous usually in those of basaltic character. They are sometimes commercially dyed.



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