Division of Geological Survey

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SUB o

HISTORIC NOMENCLATURE OF LOWER PENNSYLVANIAN STRATIGRAPHY IN OHIO

Glenn E. Larsen

STURGEON & DeLONG, 1964 IEWBERRY, 1871 NEWBERRY, 1878 WHITE, 1879 ORTON, 1884 MORNINGSTAR, 1922 TOUT & LAMBORN, 192 STOUT, 1931 ONDIT, 1912 TURGEON, 1943 ERM & CAVAROC, 1969 ONNELLSVILLE Ss. CONNELLSVILLE Ss. _ARKSBURG Coal _ARKSBURG Coal MORGANTOWN Ss. AORGANTOWN Ss. MORGANTOWN Ss. LKLICK Coal ELKLICK Ls. & Sh. BIRMINGHAM Sh. SKELLEY Ls. DUQUESNE Coal GAYSPORT Ls. MES Ls. AMES Ls. AMES Ls. AMES Ls. ARLEM Coal ARLEM Coal ARLEM Coal ROUND KNOB Sh. ROUND KNOB Sh. CONEMAUGH FORMATION SALTZBURG Ss. RTON Coal EWING Ls. COW RUN Ss. PORTERSVILLE Ls. PORTERSVILLE Ls. NDERSON Coal NDERSON Coal BLOOMFIELD Ls. CAMBRIDGE Ls. AMBRIDGE Ls. CAMBRIDGE Ls. /ILGUS Coal BUFFALO Sh. & Ss. BRUSH CREEK Ls. BRUSH CREEK Ls. BRUSH CREEK Ls. BLACK FOSSILFEROUS Ls BRUSH CREEK RUSH CREEK Coal RUSH CREEK Coal RUSH CREEK Coal ASON Coal 1ASON Coal MASON Coal RUSH CREEK Coal (?) HONING Coal IAHONING" Coal AHONING r GROFF) Coal COAL No.7 GROFF or SALINEVILLE STRIPVEIN AHONING HORNTON Clay r THORNTON Clay MAHONING Ls. IAHONING Ls. mestone BRUSH CREEK Ls. OWER MAHONING Ss. LOWER MAHONING Ss MAHONING Ss. AHONING Ss. MAHONING Ss. MAHONING Ss. MAHONING Ss. COAL No.6 BIG VEIN JPPER FREEPORT or No.7) Coal JPPER FREEPORT or No.7) Coal JPPER FREEPORT Coal COAL No.6 BIG VEIN REEPORT UPPER (or No.7) Coal SALINEVILLE STRIPVEIN WHITE Ls. GOODMAN HILL Ls. UPPER FREEPORT Ls. PPER FREEPORT Ls. PER FREEPORT Ls. OLIVAR Clay BOLIVAR Clay UPPER FREEPORT Ss. PPER FREEPORT Ss. BUTLER UPPER FREEPORT REEPORT, UPPER) Ss. Ss. or Sh. ... OORR RUN Mbr. (?) OAL No.5 /HAN or ROGER VEIN LOWER FREEPORT Coal COAL No.5 WHAN or ROGER VEIN BUTLER (FREEPORT, OWER FREEPORT Ls. S SERIE REEPORT (LOWER) Ss. LOWER FREEPORT OWER FREEPORT Ss. LOWER FREEPORT LOWER FREEPORT Ss. COAL MEASURES (ALLEGHENY RIVER WASHINGTONVILLE Sh. IPPER KITTANNING PPER KITTANNING OAL No.4 ARLINGTON Coal COAL No.4 DARLINGTON Coal RLINGTON (UPPEI TANNING) Coal MEASURES Coal; DARLINGTON CANNEL Coal SERIES) SHINGTONVILLE Sh. WASHINGTONVILLE Sh WASHINGTONVILLE Sh. WASHINGTONVILLE Sh. COAL No.4 STRIP VEIN MIDDLE KITTANNING (o lo.6) Coal; also LOWER ITTANNING Coal IDDLE KITTANNING MIDDLE KITTANNING PENNSYLVANIAN SALEM Ls. ALEM Ls. SALEM Ls. LEETONIA Ls. ED KIDNEY Ore D KIDNEY Ore SERIES, OR GROUP) TUSCARAWAS Sh. PENNSYLVANIAN SYSTEM SERIES GHENY FOR PRODUCTIVE RASBURG Coal TRASBURG Coal AK HILL Clay FERRIFEROUS Ls. HAMDEN Ls. COLUMBIANA Sh. HAMDEN Mbr. COLUMBIANA Sh. HAMDEN Sh. COAL No.3 HAMMONDSVILLE CREEK VEIN OWER KITTANNING COAL No.4, LEETONIA Coal, also COAL No.3, CREEK or CLAY VEIN ITTANNING .OWER) Coal PENNSYLVANIAN No.5) Coal CARBONIFEROUS SYSTEM UPPER CARBONIFEROUS (or LOWER KITTANNING OWER KITTANNING LOWER WRENCE Coal AWRENCE Coal OAL No.3a WRENCE Coal CARBONIFEROUS SYSTEM (FORMATION, KITTANNING Ss. KITTANNING Ss. & Sh. LOWELL (WHITE) Ls.; also FERRIFEROUS Ls. VANPORT Ls.; also PUTNAM Ls. ANPORT Ls.& Sh. VANPORT Ls. VANPORT Ls. ERRIFEROUS Ls.; FERRIFEROUS Ls. /ANPORT Ls. o WHITE Ls. VANPORT) Ls. \simeq CRUB GRASS Coal CRUB GRASS Coal COAL No.4: also COAL No.3, CANFIELD LARION (or No.4a) Coal; upper bench may correlate to the Scrub Grass Coal in S lair Twp.) OWER CLARION or 4a) Coal ARION Coal LARION Coal LARION or No.4a) Coal NARY Ore CLARION Ss. NTERS Coal ZALĘSKI Flimt GAN Coal GRAY Ls.; also PUTNAM HILL Ls. PUTNAM HILL Ls. OAL No.4 ROOKVILLE Coal ROOKVILLE (or No.4) Coal BROOKVILLE or No.4) Coal BROOKVILLE Coal (?) ROOKVILLE Clay HOMEWOOD Ss. HOMEWOOD Ss. HOMEWOOD Ss. or Sh. ONESTA (or No.3b) Coal ONESTA (or No.3b) Coal TIONESTA or No.3b) Coal PPER MERCER RED BLOCK) Ore UPPER BLUE Ls. GORE Ls. **CONGLOMERATE**) PPER MERCER Ls. UPPER MERCER Ls. MERCER, UPPER, Ls. UPPER MERCER Ls. UPPER MERCER Ls. EDFORD Coal AND BLOCK Ore COAL No.3a BRUCE Coal IPPER MERCER or No.3a) Coal ERCER, UPPER, Coal IPPER MERCER or No.3b) Coal WER MERCER Ore WER MERCER (or TLE RED BLOCK) Or OWER BLUE Ls. MERCER, LOWER, Ls. LOWER MERCER Ls. LOWER MERCER Ls. LOWER MERCER Ls. BLUE Ls. MERCER, MIDDLE, Coal MIDDLE MERCER Coal (POTTSVII LINT RIDGE Coal GGS Ore & Ls OME S OWER MERCER or No.3) Coal OWER MERCER or No.3) Coal COAL No.3 BLUE Ls. seam MERCER, LOWER, Coal LOWER Ls. seam BLUE Ls. seam MEASURE LOWELLVILLE Ls. LOWELLVILLE (POVERTY RUN) Ls. ANDUSEN Coal BEAR RUN Coal WASSILLON Ss. CONOQUENNESSING: MASSILLON or CONOQUENNESSING CONGLOMERAT CONOQUENNESSING S (UPPER) Ss. or MASSILLON Ss. or Sh OAL No.2 QUAKERTOWN (or No.2 Coal) UCKLEBERRY Coal ANTHONY Coal CIOTOVILLE Coal HARON Ore LACK BAND IRON Ore BLACK BAND IRON Ore Coal No.1, BRIAR HILL, Coal No.1, BRIAR HILL, HARON Coal HARON Coal SHARON SHARON onglomerate : Conglomerate Conglomerate ° Conglomerate RBONIFEROUS SUBCARB. SERIES) SYSTEM MISS. CUYAHOGA Ss: & Sh GROUP CARE MISSISSIPPIAN (or WAVERLY OWER CARBON. LOWER RLY GRO WAVERLY WAVERLY O

BACKGROUND

During the late 1980s, the Ohio Geological Survey conducted bedrock mapping in Columbiana, Mahoning, and Jefferson Counties; this work was part of the Survey's larger effort to create a new bedrock map for the entire state of Ohio. Originally compiled in 1985, this chart is a digitized version of a document drafted to aid in the correlation of Pennsylvanian strata, when using a combination of historic and modern data.

The chart correlates key references for northeastern Ohio to our understanding at the time, and it also served as background research for a paper on Pennsylvanian stratigraphic nomenclature by Larsen (1991). Key references for northeastern Ohio from 1871 to 1969 were used as the basis for this chart. The chart shows the nomenclature given to lithologic units from each reference, displaying the evolution of the naming convention for each lithologic unit through time.

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RECOMMENDED BIBLIOGRAPHIC CITATION

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ABBREVIATIONS

Miss. = Mississippian Carbon. = Carboniferous Cong. = Conglomerate Sh. = Shale

Ls. = LimestoneSs. = Sandstone

Mbr. = MemberSubcarb. = Subcarboniferous

KEY TO LITHOLOGICAL UNITS



