Kansas Geological Survey
Open-file Report

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OPEN FILE REPORT

Description of Acetic Acid Residues of Mississippian Core

Made from Uncrushed Samples

Mid-Continent #1 Collins 24-20-26W

by Robert G. Welch May 1963

4452-57 100% light brownish gray and green shale with imbedded rounded frosted sand and silt.

4457-62 40% light gray-brown shale with some bright green shale, 60% fine rounded frosted sand, trace of round dark brown mineral.

4463-67 60% gray to green shale, 20% white cottony chert, 15% rounded frosted sand (fine to very fine), 4% tan granular silicious material, 1% pyrite, trace chalcopyrite.

4468-71 80% light green clay shale, 15% white to tan sucrosic silicious material, 5% rounded frosted sand, trace pyrite.

4472-75 60% brownish green to light green shale, 40% fine rounded frosted sand.

4476-80 60% light brown with some light green shale, 30% rounded frosted sand, 10% tan crystalline chert (large pieces) with drusy vugs containing scattered chalcopyrite tetrahedrons (epigenetic replacement?), trace pyrite.

4482-88 70% light gray flaky shale; 10% tan to white, granular, spicular chert (two pieces); 20% rounded frosted sand.

4488-93 50% light brown to light green shale with imbedded coarse silt, 40% rounded frosted sand; 10% white chalky chert with imbedded rounded frosted sand and pyrite.

4493-95 75% light brown to light green shale, 15% white to tan, chalky to granular chert in large pieces, 5% fine rounded frosted sand, trace pyrite.

4495-02 90% gray brown to green clay shale in the form of rounded balls as if it formed filling a cavity, 2% very fine rounded frosted sand, 3% tan silicious material, 5% pyrite.

4495-05 99% light gray to green silty shale with included rounded frosted sand (much of it as described in last residue), 1% tan druzzy quartz.

4495-4529 10% light brown shale, 60% medium silt composed of quartz and sphalerite, 30% tan drusy silicified fossils, trace of sphalerite crystals.

4503-06 100% light brownish gray shale with included silt, rounded frosted sand and green shale (occurs as rounded fragments as if it filled rounded opening in the limestone). (It did.--DZ)

4509-19 95% light grayish brown to green shale with included coarse silt and very fine rounded frosted sand and pyrite; 5% white granuler chert.

4519-28 87% light gray brown to light green shale with included silt and sand; 10% white chalky chert (large pieces); 2% pyrite, 1% drusy quartz.

4529-37 60% light gray, finely silty shale, 40% clear angular to drusy quartz.

4538-43 60% light brown to dark gray shale, 35% sponge spicules (monaxons and tetraaxons), 4% rounded frosted sand, 1% clear drusy quartz.

4544-49 60% light gray brown shale, 35% sponge spicule, 5% white beekite.

4550-55 90% white silty shale, 10% sponge spicules, trace silicified fossils.

Entered by D. E. Nodine-Zeller, April 1980.