

# Herkimer Deposit Mineralization

Diamond Acres Diagram, Fonda, NY

Younger



Weathering

Boytryoidal Calcite

Second Calcite - yellow/orange

First Calcite— white rhombs/cream disc

Quartz Healing

“Herkimer Diamond” - some very large

Sulfides (minimal)

Clay Minerals

Late Prismatic Druze w/carbon

Carbon Material

“Baby Floater” druze—coating of microscopic clear Herkimer Diamonds

Early Druze—second pulse, clear/smokey

Early Druze— white

Late Dolomite, tan, peach, crude saddle form

Early Dolomite—small clear rhombs

Paleokarst

Diagram by W. David Hoisington, Ph.D., Oct. 2008

Older

This diagram shows the sequence of fluid events that changed the host rock and/or deposited minerals in Diamond Acres “Herkimer Deposit”. There are horizontal “bars” in the above diagram that symbolize each of the fluid events and each is named. The length of the bar represents the relative duration of the fluid event and the thickness of the bar represents the relative intensity of the event (or the magnitude of its features at the deposit). The overlapping of bars is meant to represent evidence that indicates two mineral phases may have been crystallizing at the same time. Each deposit has a diagram that is slightly different with changes in the length of each bar, its relative horizontal position, and its thickness. Changes in the relationship of these “mineralization bars” to each other can account for the differences seen across the many mineral deposits in the Herkimer, NY region. This diagram is the deposit’s unique signature.