Structural history and origin of the Sabine Arch, east Texas and northwest Louisiana

Bureau of Economic Geology, University of Texas at Austin - Relaxation of continental lithosphere: An explanation for Late Cretaceous reactivation of the Sabine Uplift of Louisiana-Texas, Tectonics

Description: -
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Adirondack Mountains (N.Y.)
Geology, Stratigraphic -- Tertiary.
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Folds (Geology) -- Louisiana.
Folds (Geology) -- Texas.Structural history and origin of the Sabine Arch, east Texas and northwest Louisiana
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Geological circular / University of Texas at Austin, Bureau of Economic Geology ;Structural history and origin of the Sabine Arch, east Texas and northwest Louisiana
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Natural source of arsenic in east Texas lake sediments.

While localized cement patterns have been generated in laboratory studies and simulations , this localization, unlike quartz bridges, occurs near fluid inlets into fractures.

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Two potential explanations for the peak fluid-inclusion temperatures occurring near the center of the bridge rather than near the left side are: 1 Instead of opening at a constant rate, the fracture opened more rapidly during the initial phases of growth and then slowed down, and 2 the peak temperature of the modeled sample occurred later than is assumed in the scenario 1 burial history of. In the growth simulation, regions with extensive prismatic growth cyan color form in similar positions and have comparable geometries as shown by the area outlined with a yellow dashed line in the upper-right portion of. Department of Energy, Office of Science, and from 2015 he serves on the Council on Chemical Sciences, Geosciences and Biosciences.

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Quartz bridges are found at intermediate positions, becoming increasingly abundant toward the fracture tip, as predicted by the simulation results.

Structural history and origin of the Sabine Arch, east Texas and northwest Louisiana (1991 edition)

Tertiary and Quaternary Structure and Paleotectonics of the Hueco Basin, Trans-Pecos Texas and Chihuahua, Mexico, by E. The Lower

Cretaceous Travis Peak in the eastern East Texas basin consists of regressive fluvial-deltaic facies overlain by marginal marine delta fringe facies. Our results suggest that the primary difference between the diagenetic and metamorphic realms with respect to quartz growth in fractures has to do with the much greater capacity for pervasive quartz growth under metamorphic conditions.

Geological Circulars (22)

Ankerite and dolomite are most abundant in marginal marine deposits near the top of the Travis Peak and are less abundant in the deeper, fluvial part of the formation.

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